





Dear Motor Home Owners,

We would like to congratulate you on the purchase of your new HOBBY motor home and hope that you will always enjoy traveling with it.

Please read this manual carefully, even if you have been driving a motor home for a longer period of time. It will help you to avoid operating errors and damage to the vehicle and its equipment. Correct handling of all technical details will increase your driving comfort and maintain the value of your motor home.

We wish you and your companions many enjoyable trips and hope you always have a safe journey.

Your HOBBY Motor Home Plant Ing. Harald Striewski GmbH



| Chap | ter 1: Introduction | Cha | oter 4: Wheels, Tires, Brakes | |
|------------|---|------------|---|-------|
| 1.1 | General information01-1 | 4.1 | Wheels | 04-1 |
| 1.2 | Before taking your first drive01-1 | 4.2 | Tires | 04-1 |
| 1.3 | Designations in the operating instructions 01-2 | 4.3 | Inflation pressure | 04-2 |
| Chap | ter 2: Safety | 4.4 4.5 | Tread depthWheel rims | |
| 2.1 | General information02-1 | 4.6 | Spare tire | |
| 2.2 | Fire protection 02-1 | 4.7 | Repair kit | |
| 2.3 2.4 | Road safety | 4.8 | Brakes | |
| 2.5 | Before and while driving02-3 | Cha | oter 5: Exterior of the Caravan | |
| 2.6 | Notes for your journey 02-5 | 5.1 | Overview of tank and service flaps | 05-1 |
| 2.7 | Tools on board02-9 | 5.2 | Ventilation | 05-6 |
| 2.8 | Emergency equipment | 5.3 | Opening and closing doors and flaps | 05-8 |
| 2.9 | Maximum speeds 02-11 | 5.4 | Exterior mirror | 05-13 |
| 2.10 | When you stop driving 02-14 | 5.5 | Roof rail | 05-13 |
| Chap | ter 3: Chassis | Cha | oter 6: Electrical Installations | |
| 3.1 | Chassis 03-1 | 6.1 | Safety instructions | 06-1 |
| 3.2 | Loading 03-1 | 6.2 | HOBBY On-board Control Panel | 06-1 |
| 3.3 | Leveling supports03-9 | 6.3 | Electric power supply | 06-14 |
| 3.4 | Entrance step | 6.4 | Function of the power generating unit | 06-15 |
| 3.5 | Externally mounted constructions 03-11 | 6.5 | Caravan battery | 06-18 |
| | | 6.6 | Fuse protection for the electric system | 06-19 |
| | | 6.7 | Interior circuit diagrams | 06-21 |



| Chap | ter 7: Interior of the Caravan | |
|------|---|-------|
| 7.1 | Opening closing doors and flaps | 07-1 |
| 7.2 | Windows | 07-3 |
| 7.3 | Caravan skylight | 07-5 |
| 7.4 | Sunroof with Remi-Star combination blind | 07-6 |
| 7.5 | Washroom skylight | 07-11 |
| 7.6 | Dimming system for driver's cabin | 07-11 |
| 7.7 | Seating chests and setting up beds | 07-13 |
| 7.8 | Overview of the seating arrangements | 07-16 |
| 7.9 | Overview of day and night positions | 07-21 |
| 7.10 | Seats in the caravan | 07-31 |
| 7.11 | Seats in the driver's cabin | 07-32 |
| 7.12 | Media unit | 07-32 |
| 7.13 | Alcoves | 07-33 |
| Chap | ter 8: Water | |
| 8.1 | Water supply | 08-1 |
| 8.2 | Flushing the toilet | 08-4 |
| 8.3 | Hot water supply | 08-9 |
| Chap | ter 9: Gas | |
| 9.1 | General safety rules for using LPG fittings | 09-1 |
| 9.2 | Gas supply | 09-3 |
| 9.3 | Heating | 09-5 |

| 9.4 | Refrigerator | 09- |
|-------|--|-----|
| 9.5 | Gas cooker | 09- |
| 9.6 | Oven | 09- |
| Chapt | er 10: Accessories | |
| 10.1 | Towbar coupling | 10- |
| Chapt | er 11: Maintenance and Care | |
| 11.1 | Maintenance | 11- |
| 11.2 | Airing | 11- |
| 11.3 | Care | 11- |
| 11.4 | Operating in winter | 11- |
| Chapt | er 12: Sanitation and Environmental Protection | |
| 12.1 | The environment and traveling | 12- |
| 12.2 | Returning the vehicle | 12- |
| Chapt | er 13: Technical Data | |
| 13.1 | Weights acc. to 92/21/EWG, 2007 season | 13- |
| 13.2 | Inflation pressure | 13- |
| Index | | I- |
| Apper | ndix | .A- |



Chapter 1: Introduction

Our motor homes are continuously being further developed and for this reason we must reserve the right to make changes to the equipment, shape and technology. Certain kinds of accessories are also described in this user manual that are not part of the standard scope of delivery. For this reason, no claims may be asserted against HOBBY based on the contents of this user manual. Those accessories that are available at the time of going to print are described here. They have been applied on a par for all floor plans. Please note that it was not possible to describe all of the individual variations here. If you have any special questions concerning accessories or the technology of the vehicle, your dealer will be happy to answer them.

1.1 General information

Your HOBBY motor home has been built in accordance with the latest technology and approved safety regulations. Despite all precautionary measures, however, it is possible that passengers may be hurt or the motor home damaged if the safety instructions in this user manual and the warning stickers placed throughout the motor home are not observed. Please use the motor home only when it is technically in top condition.

Any defects that affect the safety of passengers or the motor home should be remedied immediately by trained personnel. The brake system and the gas system should only be checked and repaired by an authorised workshop.

Please ensure that all of the deadlines for checking equipment and inspections are met.

1.2 Before taking your first drive

Please do not consider this manual to be just a means of reference, but familiarize yourself thoroughly with it before taking your first drive.

Fill out the guarantee cards in the different manuals for the installed equipment and fittings and send them to the manufacturers. This will ensure guarantee claims for any of the equipment.



In accordance with guarantee conditions, HOBBY's dealer will give you a 5-year guarantee on the consistency of the motor home. Your dealer will give you a guarantee booklet, "5 Years' Guarantee on Consistency" when you pick up your vehicle.



Note: If a consistency test has not been carried out, you will forfeit any claims for a 5-year guarantee on consistency.



Please note the following before operating the vehicle:

Check the tyre pressure.

Please refer to the section on tyre pressure.

Load the vehicle correctly. Keep to the technically permissible overall mass.

Please refer to the section on loading.

Load the batteries fully before each journey.

Please refer to the section on the starter and accommodation batteries.

If the temperature outside is below 0° C, heat the vehicle before filling up the water system.

Please refer to the section on water supply/filling the fresh water tank.

- Tighten the wheel nuts after having driven the first 50 km.
- Switch off all fitted devices that operate on gas before filling the petrol tank.
- Tightly strap gas bottles in the gas bottle box during transportation.
- When camping in winter, heat the vehicle at night if there is danger of frost.

Please refer to the section on operating in winter/heating.

Keep compulsory ventilation clear.

Please refer to the section on windows/roof fan/airing.

When the vehicle is not in use, empty the entire water system and leave the water faucets open in a neutral position. This prevents the water system from being damaged by frost.

Please refer to the section on emptying the water system.

1.3 Designations in the operating instructions

This manual explains the motor home in the following manner:

Texts and illustrations

Texts that refer to illustrations are found directly below the illustrations

Details in illustrations (here: entrance) have been given item numbers (1).



Lists

Lists are given in the form of key words and shown as bullet points using "-".



Handling instructions

Handling instructions are also given in the form of key words beginning with the symbol "•".

Notes



Notes point out important details that ensure your motor home and its fittings will function perfectly. Please remember that there may be some differences in description to the various kinds of equipment that can be supplied.

Warnings



Warnings make you aware of dangers that may lead to material being damaged or even people being hurt if they are not observed.

Environmental Tips



Environmental tips give you possibilities for lessening the impact on the environment.



Chapter 2: Safety

2.1 General information

- Ensure that there is sufficient ventilation. Never cover builtin compulsory ventilation (skylights with compulsory ventilation or roof fan). Keep compulsory ventilation free of snow and leaves - danger of suffocation!
- Note the headroom of the entrance door and the driver's door.
- Operating and user instructions for built-in equipment (refrigerator, heating, cooker, etc.) as well as for the basic vehicle must be observed at all times.
- If accessories or optional equipment is to be installed, this
 may change the measurements, weight and road performance of the motor home. Some accessories must be registred and entered in the vehicle's papers.
- Use only tyres and rims that have been approved for your motor home. Please refer to the vehicle's registration papers for information on tyre and rim sizes.
- Always use the parking brake whenever you park the motor home.

2.2 Fire protection

Precautions against fire

- Never leave children alone in the vehicle.
- Keep inflammable materials away from all heating and cooking devices.
- Any changes to the electric system, gas system or built-in devices may only be carried out by an authorised workshop.
- Install a fire extinguisher next to the main entrance.
- Familiarise yourself with the instructions on the fire extinguisher.
- Store a fire blanket near the cooker.
- Do not block any escape routes.
- Familiarise yourself with all safety measures set up on the property.

Fighting fire

- Immediately evacuate all passengers.
- Shut the valves of the gas bottles.
- Turn off the electric supply.
- Sound the alarm and call the fire department.
- Only fight the fire yourself if you can do so without risk.



2.3 Road safety

- Before driving, check that the signal and light equipment, steering and brakes all function properly.
- If the vehicle has been standing for a longer period of time (approx. 10 months) have an authorised workshop check the brake system and the gas system.
- Completely open and fasten the dimming system on the front and side windows.
- Passengers may not stay in the alcoves while driving.
- In winter, the roof must be cleared of snow and ice before driving.
- Regularly check the tire pressure before driving. False tire
 pressure can cause excessive wear, damage to the tires or
 even lead to a burst tire.
- Children's seats may only be mounted on seats that have a three-point seat belt installed by the factory.
- Turn the reversible seats in the direction of travel and lock them. The seats may not be turned while driving.

2.4 What to observe before taking your first drive

Vehicle registration

Every vehicle that drives on public roads must be registered. This also applies to your new motor home. Apply for registration at your local Driver and Vehicle Licensing Agency.

You must show the following when applying for registration:

- registration document, Part II
- insurance coverage
- proof of personal identity or confirmation of registration by a local authority
- if applicable, power of attorney to register the vehicle.

General inspection

In accordance with Section 29 of the German Road Traffic Licensing Regulations, your motor home must undergo a general inspection every two years during the first 72 months, after which a general inspection must be carried out every year. This general inspection can be carried out by the German Technical Surveyance Association (TÜV), the German Motor Vehicle Surveyance Association (DEKRA) or an officially approved expert.



For each general inspection you must show the following:

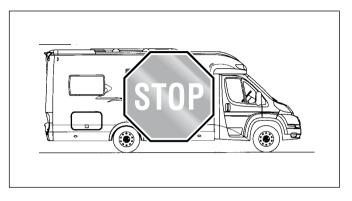
- registration document. Part I
- valid gas test certificate for gas installation. The initial certificate will be given to you together with the registration document.



Any changes made to the vehicle that underlie German Road Traffic Licensing Regulations must be officially authorised!



If you have any further questions or difficulties, your authorised Hobby dealer will always be available to assist vou!



2.5 Before and while driving

As the owner / driver of the vehicle, you are responsible for the state of the vehicle. Please observe the following points:

Exterior

Check the exterior of the vehicle and carry out the following preparations before driving:

Preparing the vehicle

- If the leveling supports have been extended, retract them.
- Close all of the windows in the motor home as well as the skylights in the roof.
- Close and secure the entrances to the caravan and the service flaps.



- Close the tap for the sewage tank.
- Close all taps and quick-action stop valves for gas devices. The only exception is for heaters that are to be used while driving.
- If necessary, remove any electric cables from the exterior socket.
- If necessary, retract the TV antenna as for as possible.
- If necessary, secure any loads on the roof, ensuring that they will not slide.
- The same applies for bicycles.
- Turn off the light in the tent in front of the motor home.

Interior

Some preparations must also be carried out inside the mobile home.

Preparing the interior

- Sort loose objects and stow them in the compartments.
- Place heavy objects in the lower compartments.
- If necessary, switch refrigerator to 12 V operation.
- Ensure that no liquids, including those in the refrigerator, will leak.
- Secure gas bottles.
- Brace the safety device for the table.
- Firmly close doors (including refrigerator door), drawers and flaps.

- Heavy and/or voluminous objects (e.g. TV, radio) must be secured before driving.
- · Completely open and secure the optional cockpit dimming system.



Do not overload the vehicle! It is imperative that you note the permissible axle loads, the technically permissible overall mass as well as the permissible height, width and length of the mobile home.



Place a note with all important measures and weights in a visible place in both the caravan and the driver's cabin.

Driver's cabin

Do not forget the following:

- Adjust the interior and exterior mirrors as well as your seat.
- Check the lights.

In addition:

- Check your tire pressure.
- Check all liquids, such as oil, cooling water, brake fluid and windscreen cleaning liquid, and fill them up if necessary.



Brace the safety device for the table.

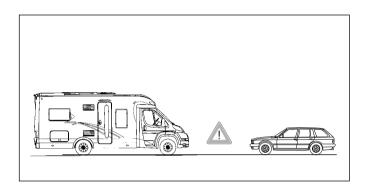


Note: Never use your cell phone at the petrol station.

Before driving off

Before you drive off you should be able to answer the following questions with "yes":

- Is there a first-aid kit and a warning triangle on board?
- Are all the lights working (headlights, dipped headlights, brake lights and blinkers)?



2.6 Notes for your journey

Your mobile home is not an automobile!

In many situations, it reacts very differently to a "normal" automobile. Therefore, you should be prepared for the following differences:

Loading

The following applies for loading:

- Load evenly. Heavy or bulky objects should be placed in the lower compartments!
- Tie down roof loads securely!
- In the interior, store luggage in cupboards and compartments.



- · Secure all doors and flaps.
- After you have finished loading, check the overall weight on a public scales.



Do not exceed axle loads and permissible overall weight.

Roof load (50 kg maximum)

The height of the mobile home may vary from one journey to the next due to different roof loads.

The following applies for roof loads:

- Add the measurement of the roof load to the height of the mobile home.
- Place a note visibly in the driver's cabin giving the overall height. This saves having to calculate when driving under bridges and through tunnels.

Braking

The following applies for braking:

- Note the longer length of the brake path, especially on wet roads.
- When driving downhill, select a gear that is not higher than when driving uphill.

Shunting

Your mobile home is far larger than an automobile.

The following applies for shunting:

- Even if the exterior mirrors have been set correctly, there is an extremely large blind angle.
- Use assistance from other persons to park in places where you have a difficult view.

Passenger safety

The following applies while driving:

- Only those seats may be used by passengers that are equipped with a safety belt.
- While driving, passengers may note stay in the alcove or the beds.
- Passengers must remain in their seats with their seat belt on!
- Do not open the door latch!
- No extra passengers may remain in the vehicle!



Driving

Take a trial drive before leaving on your first large journey in order to familiarize yourself with the mobile home. Remember to practise driving backwards.

The following applies for driving:

- Do not underestimate the length of the mobile home.
- Be careful when driving into inner courtyards and through entrance gates.
- The mobile home may start to swing from side to side in cross-winds, on wet or icy roads.
- Adjust your speed to road and traffic conditions.
- Long descents with a slight gradient can become dangerous. Adjust your speed from the very beginning to allow you to speed up if necessary without endangering other automobiles.
- As a general rule, never drive faster downhill than uphill.
- The mobile home may be caught up in a slipstream when overtaking or being overtaken by lorries with trailers or buses. This effect is counteracted by lightly counter-steering.

Driving in reverse

The following applies for driving in reverse:

• Use the assistance of a person outside the vehicle when driving in reverse.

Driving through curves

Due to its height, a mobile home begins to sway more quickly than an automobile.

The following applies for driving through curves:

Never drive too guickly into a curve!

Driving economically

The motor of your mobile home has not been designed to drive constantly under a full load.

The following applies when driving:

- Do not keep your foot down on the gas!
- The final 20 km/h before reaching top speed require up to 50 % more fuel!

Getting petrol

A number of devices that use an open flame have been built into your mobile home.



The following applies when getting petrol:

- Turn off all gas devices (heating, refrigerator, etc.)!
- Turn off all cell phones!
- Never get anything other than diesel fuel.
- Never mistakenly fill the fresh water tank with fuel.

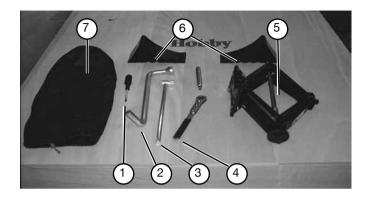
Saving energy in winter

It is very easy to save energy inside your mobile home. This applies especially to heating in winter.

The following applies for saving energy:

- Meter the exact use of ventilation in the vehicle and the heating valve.
- Install winter mats on the inner sides of the driver's cabin and the windscreen (not included in scope of delivery).
- Install an insulation mat between the driver's cabin and the caravan (not included in scope of delivery).
- Use aluminium-coated window mats and window blinds. These offer protection against both the cold and the heat.
- Open the door as little and as briefly as possible.
- When camping in winter, it is possible to put up a small tent in front of the vehicle as protection against the cold.





2.7 Tools on board

The basic model (FIAT) has the following standard tools on board.

- screw driver (1)
- nut wrench (2)
- crank for leveling supports (3)
- ratchet wrench (4)
- jack (5)
- block (6)
- tool bag (7)

2.8 Emergency equipment

To be prepared in case of an emergency, you should always carry the three emergency devices on board and familiarize vourself with them.

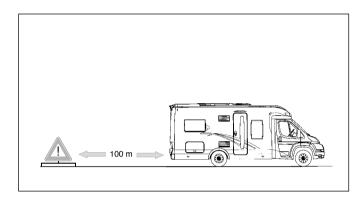
First-aid kit (standard equipment)

The first-aid kit should always be at hand and have a fixed position in your mobile home. Any objects removed from the first-aid kit should be replaced immediately. Expiry dates should be checked regularly.

Reflective jacket (not included in scope of delivery)

In acc. with EN 471, we recommend that you carry and wear a reflective jacket with white retro-reflective stripes whenever you leave the vehicle on open roads and emergency strips. The driver should wear this jacket when the vehicle

- comes to a stop outside city limits on an obscure rural road because of an accident or breakdown, if the view is poor due to bad weather, in twilight or darkness, or
- when it must be secured by means of a warning triangle on the emergency strip of the motorway because of an accident or breakdown.



Warning triangle (standard equipment)

The warning triangle should also always be at hand and have a fixed position in your mobile home, preferably together with the first-aid kit.

In an emergency

Set up the warning triangle at least 100 m in front of the danger zone!

Fire extinguisher (not included in scope of delivery)

Familiarize vourself with how to operate the fire extinguisher. Pay attention to the date when it must be refilled! The fire extinguisher must be checked every 2 years.

Precautions against fire

- Never leave children alone in the vehicle.
- Familiarize yourself with the position and use of the emergency exits.
- Do not block any escape routes.
- Keep inflammable materials away from all heating and cooking devices.
- Install a fire extinguisher next to the main entrance.
- Store a fire blanket near the cooker.
- Familiarize yourself with the instructions on the fire extinguisher.
- Familiarize yourself with all safety measures set up against fire on the property.

Fighting fire

- Evacuate all passengers.
- Close the valves of the gas containers.
- Turn off the electric supply.
- Sound the alarm and call the fire department.
- Only fight the fire by yourself if this can be done without risk.



2.9 Maximum speeds

Never exceed the maximum speed of the country in which you are driving! The following table lists the maximum speeds for mobile homes in European countries. (Status: 2000-01-03)

| Country | Measurements (m) | | Permissible overall | | | |
|---------------|------------------|--------|--|-----------|----------------------------------|-------------------------|
| | width | length | weight (t) | in cities | outside cities | on motorways |
| Belgium | 2,50 | 12 | up to 7,5 over 7,5 | 50 | 90/120 *1 60/90 *1 | 120 90 |
| Bulgaria | 2,60 | 11 | up to 7,5 over 7.5 | 50 | 90 70 | 120 100 |
| Denmark | 2,55 | 12 | up to 3,5 over 3,5 | 50 | 80 70 | 110 70 |
| Germany | 2,55 | 12 | up to 3,5 3,5 up to 7,5 over 7,5 | 50 | 100 80 60 | 130 *2 100 *19 80 |
| Estonia | 2,50 | 12 | up to 3,5 over 3,5 | 50 | 90 70 | 110 90 |
| Finland | 2,60 | 12 | | 50 | 80 *15 | 80 *15 |
| France | 2,50 | 12 | up to 3,5 over 3,5 | 50 | 90 *3/110 *1;3 80 *3/100 *1;3 | 130 *3 110 *3 |
| Greece | 2,50 | 12 | · | 50 | 110/120 *1 | 120 |
| Great Britain | 2,55 | 12 | | 48 | 96/112 *1 | 112 |
| Ireland | 2,50 | 12 | | 48 | 96/112 *1 | 112 |
| Iceland | 2,55 | 12 | | 50 | 90 *4 | |
| Italy | 2,55 | 12 | up to 3,5 over 3,5 | 50 | 90/110 *1 80 | 130 100 |
| Yugoslavia | 2,50 | 12 | up to 3,5 over 3.5 | 60 | 80/100 *1 80 | 100 80 |
| Croatia | 2,55 | 12 | | 50 | 80/100 *1 | 130 *18 |
| Latvia | 2,50 | 12 | up to 7,5 | 50 | 90 *2 | 90 |
| Lithuania | 2,50 | 12 | up to 3,5 over 3,5 | 50 | 90 70 | 110 *9 |



| Country Measurements (m) | | urements (m) | Permissible overall | Maximum speed (km/h) | | | | | |
|--------------------------|----------|--------------|---------------------|----------------------|----------------|--------------|--|--|--|
| | width | length | weight (t) | in cities | outside cities | on motorways | | | |
| Macedonia | 2,50 | 12 | | 50/60 | 80 | 80 | | | |
| Netherlands | 2,55 *14 | 12 | | 50 | 80/100 *1 | 120 | | | |
| Norway | 2,55 | 12,4 | up to 3,5 | 50 | 80/90 *1 | 90 | | | |
| | | | 3,5 over 7,5 | | 80 | 80 | | | |
| Austria | 2,55 | 12 | up to 3,5 | 50 | 100 | 130 *8 | | | |
| | | | 3,5over 7,5 | | 70 | 80 | | | |
| Poland | 2,50 | 12 | up to 2,5 | 60 | 90 | 130 | | | |
| | | | over 2,5 | | 70 | 70 | | | |
| Portugal | 2,55 | 12 | up to 3,5 | 50 | 90/100 *17 | 120 *7 | | | |
| | | | over 3,5 | | 80/90 *17 | 90 | | | |
| Romania | 2,50 | 12 | up to 3,5 | 50 | 90 | 90 | | | |
| | | | over 3,5 | 40 | 60 | 60 | | | |
| Russia | 2,50 | 12 | | 50 | 90 *10 | 90 *10 | | | |
| Sweden*16 | 2,60 | 24 | up to 3,5 | 50 | 70/90 *17 | 110 | | | |
| | | | over 3,5 | | 80/90 *1 | 90 | | | |
| Sweden | 2,60 | 24 | up to 3,5 | 50 | 70/90 | 110 | | | |
| | | | over 3,5 | | 80/90 | 90 | | | |
| Switzerland | 2,55 | 12 | up to 3,5 | 50 | 80/100 | 120 | | | |
| | | | over 3,5*12 | | 100 | 100 | | | |
| The Slovakian | 2,50 | 12 | up to 3,5 | 60 | 90 | 130 | | | |
| Republic | | | 3,5 up to 6,0 | | 80 | 80 | | | |
| Slovenia | 2,55 | 12 | up to 3,5 | 50 | 80/100 | 100 | | | |
| | | | over 3,5 | | 80 | 80 | | | |
| Spain | 2,55 | 12 | | 50 | 80/90/100 | 100 | | | |
| The Czech | 2,50 | 12 | up to 3,5 | 50 | 90 | 130 | | | |
| Republic | | | over 3,5 | | 80 | 80 | | | |
| Turkey | 2,50 | 10 | | 50 | 80 | 130 | | | |
| The Ukraine | 2,50 | 12 | | 60 | 90 | 110 | | | |
| Hungary | 2,50 | 12 | up to 3,5 | 50 | 80/100 | 120 | | | |
| | | | over 3,5 | | 70 | 80 | | | |
| Cyprus | 2,50 | 16,5 | | 50 | 80 | 100 | | | |



02-13 Safety

- *1: On expressways.
- *2: Recommended speed 130 km/h.
- *3: Reduce speed by 10 km/h on wet roads and by 20 km/h on motorways.
- *4: On gravel roads: 80 km/h.
- *5: On roads with more than one lane in both directions.
- *6: On motorways.
- *7: A driver who has not held his licence for more than one year may not drive faster than 90 km/h. Corresponding stickers (available in the offices of the ACP) must be applied visibly to the rear of the vehicle.
- *8: From 10 p.m. to 5 a.m.: 110 km/h on all motorways with the exception of the A1 (Salzburg-Vienna) and the A2 (Salzburg-Villach).
- *9: Up to 1100 ccm: 70 km/h, up to 1800 ccm: 80 km/h, over 1800 ccm: 90 km/h.
- *10. 70km/h if the driver has held his licence for less than 2 years.
- *11: In accordance with Section 57 a of the German Road Traffic Licensing Regulations, vehicles with a maximum overall weight of more than 7.5 t require a tachograph. However, it is in dispute whether this is also applicable for motor homes that are privately used.
- *12: A heavy vehicle fee must be paid on all roads for all vehicles with a maximum overall weight of more than 3.5 t.
- *13: The experience of the past few years has shown that objections are no longer raised with regard to extra-wide or extra-long German vehicles.
- *14: 2.55 m on all main roads; 2.20 m on all roads marked "B".
- *15: Motor homes that were first registered from 1995 onwards with an empty weight of 1,875 kg as well as those first registered from 1981 onwards with an empty weight oof 1,800 kg may drive a maximum of 100 km/h.
- *16: A closed sewage system is often mandatory on Swedish camping grounds.
- *17: In accordance with the signs.
- *19: 12th exception to the German traffic regulations for the German Road Traffic Regulations dated 2005-03-18.



Note traffic regulations nos. 253, 273 and 277 in accordance with Section 41 of the German Road Traffic Regulations.



Also note Sections 3, 7 and 18 of the German Road Traffic Regulations.



2.10 When you stop driving

Selecting a parking space

The following applies for selecting a parking space:

- Select a parking space that is as level as possible.
- If possible, pick your spot in daylight.

Securing the vehicle

The following applies when securing the vehicle:

- Put the vehicle in gear.
- Pull on the handbrake.
- If necessary, extend extra vehicle supports.
- If necessary, use blocks (not in scope of delivery).



If the temperature is below 0°, only pull the handbrake on lightly and ensure that the vehicle is in gear to prevent the handbrake from freezing!



When turning the driver' seat, ensure that you do not accidently disengage the handbrake.

Switching electric consumption:

The following applies when switching electric consumption:

Switch the refrigerator from 12 V to gas or 230 V. Otherwise. if the motor is not on, the 12 V electrical supply will automatically turn itself off after a few minutes.

Water system

Empty the entire water system if the vehicle is not heated when there is danger of frost. Leave the water faucets as well as all drain valves open to prevent damage from frost.

Water that has been left to stand in the fresh water tank or water pipes quickly becomes undrinkable. Therefore, always flush the water pipes thoroughly with several litres of fresh water before using them.



Chapter 3: Chassis

3.1 Chassis

The chassis includes parts of the frame and the axles. No technical changes may be made, as otherwise the general type approval will expire!



Technical changes may only be carried out after being released by the manufacturer.



For further information, please refer to the enclosed operating instructions for the basic vehicle.

3.2 Loading



The maximum axle loads as well as the technically permissible overall mass entered in the vehicle's documents may not be exceeded.

Weights of mobile homes in accordance with 92/91/EWG



Please refer to the definition of the masses for mobile homes!

Definition of masses for mobile homes

Throughout Europe, EU Guideline 92/21/EWG is applicable for calculating the masses and the resulting loads for mobile homes. The terms und basis used for calculations are explained below.

1. Technically permissible overall mass

The figure for the technically permissible overall mass is based on information given by the Hobby Mobile Home Plant in cooperation with the manufacturer of the base vehicle. This mass was determined in extensive calculations and tests and, for safety reasons, it may not be exceeded under any circumstances.

2. Mass when the vehicle is ready to start

The mass when the vehicle is ready to start corresponds to the mass of the empty vehicle including lubricants, tools, spare tyre (and/or repair kit), petrol (100 %), booster battery, all of the standard equipment mounted by the factory as well as 75 kg for the driver, plus basic equipment (gas, water, electric).

3. Basic equipment

The basic equipment includes with weight of the fresh water and gas bottle containers, filled to 90 % of their capacity. A detailed description of these weights for the individual series is set out on the following page:



| | Toskana | Toskana | l |
|--------------------------------------|----------------------|---------|------------------|
| | D 615 AK GFLC/KLC | Others | Exclusive All |
| a) LPG supply | | | |
| Number of 11 kg gas bottles: | 2 | 2 | 2 |
| Weight of an 11 kg aluminium bottle: | 5.5 | 5.5 | 5.5 |
| Weight of 11 kg gas inflation (90 %) | 10.0 | 10.0 | 10.0 |
| Total: | 31 | 31 | 31 |
| b) Liquids | | | |
| 100 I fresh water tank (90 %) | - | 90 | 90 |
| 10 I fresh water tank (90 %) | 9 | - | - |
| Total basic equipment: | 40 | 121121 | |

4. Loading

Loading corresponds to the difference between the "technically permissible overall mass" and the "mass when the vehicle is ready to start". This value must take into consideration the masses for passengers (conventional load: 75 kg x no. of seats, driver excepted), additional equipment and personal belongings.



Check to ensure that the masses of all objects transported in the mobile home have been taken into consideration, e.g. passengers, additional equipment, basic equipment and personal belongings such as clothes, food, pets, bicycles, surfboards, other sport equipment, etc.).



Under no circumstances may the technically permissible total load be exceeded when the mobile home has been loaded.

5. D 615 AK GFLC and D 615 AK KLC



Before driving, you must open the overflow valve for the fresh water tank.

To reduce the weight when the vehicle is ready to start, the fresh water tank has been fitted out with an overflow valve, located to the right in the seat and marked with a warning sign. Before you begin driving, open the overflow valve. The contents of the fresh water tank will run off until, for weight reasons, only approx. 10 litres are left. When the vehicle is standing, the valve can be closed, allowing you to use the full volume of the tank.

A reduced fresh water supply when the vehicle is ready to start has been entered in the vehicle's registration papers. The mobile home may only be operated on public roads when the overflow valve is open. The driver is responsible for ensuring that this requirement is fulfilled as well as for observing the technically permissible total weight.



Chassis data for mobile homes, 2007 season

| Hobby | Series | Туре | Basic | Moto | rization ⁵⁾ | Chassis | Hitch | Seatbelt | No. of | Techn. perm. overall weight | Perm. axle | load | Trailing | load | Max. total |
|---------------|-----------------------|------|----------------------|--------------|------------------------|---------------------------------|----------|----------|---------------------|--------------------------------|------------|--------|------------------------|----------------------|-----------------------|
| Model | | | vehicle | Standard | Alternative(s) | | | system | seats ⁶⁾ | [kg] | front | rear | unloaded ³⁾ | loaded ³⁾ | weight of mobile home |
| D 600 FL | Toskana (F) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-Ar | VP 230 | 4 | 3500 | 1850 | 2000 | 750 | 1300 | 4800 |
| D 600 GFLC | Toskana (F) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | VP 230 | 4 | 3500 | 1850 | 2000 | 750 | 1000 | 4500 |
| D 650 ES | Toskana (F) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | VP 230 | 4 | 3500 | 1850 | 2000 | 750 | 1000 | 4500 |
| D 650 FLC | Toskana (F) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | MP 230 | 4 | 3500 | 1850 | 2000 | 750 | 1000 | 4500 |
| D 650 FLC | Toskana Exclusive (G) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | MP 230 | 4 | 3500 | 1850 | 2000 | 750 | 1000 | 4500 |
| D 650 GFLC | Toskana Exclusive (G) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | VP 230 | 4 | 3500 | 1850 | 2000 | 750 | 1000 | 4500 |
| D 690 GELC | Toskana Exclusive (G) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | MP 230 | 4 | 4000 | 2100 | 2400 | 750 | 1000 | 5000 |
| D 750 FLC | Toskana Exclusive (G) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 45HT | AMC58G-A | MP 240 | 4 | 4500 | 2100 | 2x1500 | 750 | 1550 | 6000 |
| D 750 ELC | Toskana Exclusive (G) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 45HT | AMC58G-A | MP 240 | 4 | 4500 | 2100 | 2x1500 | 750 | 1550 | 6000 |
| D 750 GELC | Toskana Exclusive (G) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 45HT | AMC58G-A | MP 240 | 4 | 4500 | 2100 | 2x1500 | 750 | 1550 | 6000 |
| D 595 AK LC | Toskana (E) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | VP 230 | 4 | 3500 | 1850 | 2000 | 750 | 1300 | 4800 |
| D 615 AK GFLC | Toskana (E) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | VP 230 | 4 | 3500 | 1850 | 2000 | 750 | 1100 | 4600 |
| D 615 AK KLC | Toskana (E) | F3 | FIAT Ducato 35 Light | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | MP 231 | 4 | 3500 | 1850 | 2000 | 750 | 1100 | 5100 |
| D 670 AK KMC | Toskana (E) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | MP 232 | 4 | 4000 | 2100 | 2400 | 750 | 1100 | 5100 |
| D 670 AK GFM | Toskana (E) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | VP 232 | 4 | 4000 | 2100 | 2400 | 750 | 1100 | 5100 |
| D 670 AK FLC | Toskana (E) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | MP 230 | 4 | 4000 | 2100 | 2400 | 750 | 1100 | 5100 |
| D 670 AK GFLC | Toskana (E) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | VP 230 | 4 | 4000 | 2100 | 2400 | 750 | 1100 | 5100 |
| D 725 AK GFMC | Sphinx (H) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 45HT | AMC58G-A | MP 251 | 4 | 4500 | 2100 | 2x1500 | 750 | 1550 | 6000 |
| D 770 AK GEMC | Sphinx (H) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 45HT | AMC58G-A | MP 250 | 4 | 4500 | 2100 | 2x1500 | 750 | 1550 | 6000 |

All measurements in [mm]

All weights in [kg]

- 1) Iveco. Fiat and Ford Van: incl. roof rail (series); other Ford models: without rear ladder and roof rail (special equipment)
- 2) Without exterior mirrors. without side blinkers
- 3) The towbar coupling is special equipment.
- 4) From the back edge of the driving unit to the back edge of the rear wall
- 5) FIAT 130 Multijet: 95.5 kW (130 PS); 160 Multijet Power: 115.5 kW (157 PS) FORD: 2.2 TDCi 81 kW (110 PS); 2.2 TDCi 96 kW (130 PS); 2.4 TDCi 85 kW (115 PS); 2.4 TDCi 102 kW (140 PS) IVECO 3.0 HPI 107 kW (146 PS); 3.0 HPT 130 kW (176 PS)
- 6) The number of seats may be reduced due to the additional weight of the special equipment.



| _ | | | | | | | | |
|----------------------|----------------------|--------|-------|-------|------|-------|---------|--------|
| Caravan | Total | Height | Width | Track | | Wheel | Projec- | tion |
| length ⁴⁾ | length ¹⁾ | 1) | 2) | front | rear | base | front | rear1) |
| 4035 | 6476 | 2870 | 2330 | 1810 | 1980 | 3800 | 948 | 1728 |
| 4035 | 6476 | 2870 | 2330 | 1810 | 1980 | 3800 | 948 | 1728 |
| 4533 | 6974 | 2870 | 2330 | 1810 | 1980 | 3800 | 948 | 2226 |
| 4533 | 6974 | 2870 | 2330 | 1810 | 1980 | 3800 | 948 | 2226 |
| 4533 | 6974 | 2870 | 2310 | 1810 | 1790 | 3800 | 948 | 2226 |
| 4533 | 6974 | 2870 | 2310 | 1810 | 1790 | 3800 | 948 | 2226 |
| 5028 | 7469 | 2900 | 2310 | 1810 | 1790 | 4035 | 948 | 2486 |
| 5612 | 8053 | 2910 | 2310 | 1810 | 1860 | 4316 | 948 | 1989 |
| 5612 | 8053 | 2910 | 2310 | 1810 | 1860 | 4316 | 948 | 1989 |
| 5612 | 8053 | 2910 | 2310 | 1810 | 1860 | 4316 | 948 | 1989 |
| 3705 | 6146 | 2990 | 2330 | 1810 | 1980 | 3450 | 948 | 1748 |
| 4015 | 6456 | 2990 | 2330 | 1810 | 1980 | 3450 | 948 | 2058 |
| 4015 | 6456 | 2990 | 2330 | 1810 | 1980 | 3450 | 948 | 2058 |
| 4554 | 6995 | 3020 | 2330 | 1810 | 1980 | 4035 | 948 | 2012 |
| 4554 | 6995 | 3020 | 2330 | 1810 | 1980 | 4035 | 948 | 2012 |
| 4554 | 6995 | 3020 | 2330 | 1810 | 1980 | 4035 | 948 | 2012 |
| 4554 | 6995 | 3020 | 2330 | 1810 | 1980 | 4035 | 948 | 2012 |
| 5143 | 7620 | 3320 | 2330 | 1810 | 1860 | 3778 | 948 | 2094 |
| 5612 | 8089 | 3320 | 2330 | 1810 | 1860 | 4316 | 948 | 2025 |

Tires and rims for basic mobile home vehicles, 2007 season

Basic model with steel rims Basic model with LM rims Techn. perm Hobby Perm. axle load Wheel at-Wheel at-Series overall Tire size Steel rims Tire size weight tachment* tachment* Model front rear (kg) 600 FL Toskana (F) 3500 1850 2000 215/70 R 15 C 5/71/118 6 J x 15. ET 68 215/70 R 15 C 5 / 71 / 118 600 GFLC Toskana (F) 3500 1850 2000 215/70 R 15 C 5/71/118 6 J x 15. ET 68 215/70 R 15 C 5 / 71 / 118 650 ES Toskana (F) 1850 215/70 R 15 C 5/71/118 6 J x 15. ET 68 215/70 R 15 C 5 / 71 / 118 3500 2000 650 FLC 3500 215/70 R 15 C 6 J x 15, ET 68 215/70 R 15 C Toskana (F) 1850 2000 5/71/118 5 / 71 / 118 650 FLC Toskana Exclusive (G) 3500 1850 2000 215/70 R 15 C 5/71/118 6 J x 15. ET 68 215/70 R 15 C 5 / 71 / 118 650 GFLC Toskana Exclusive (G) 3500 1850 215/70 R 15 C 5/71/118 6 J x 15, ET 68 215/70 R 15 C 5 / 71 / 118 2000 690 GESC Toskana Exclusive (G) 4000 2100 2400 225/75 R 16 C 5 / 78 / 130 6 J x 16. ET 68 225/75 R 16 C 5 / 78 / 130 750 FLC Toskana Exclusive (G) 4500 2100 225/75 R 16 C 5 / 78 / 130 6 J x 16. ET 68 225/75 R 16 C 5 / 78 / 130 2x1500 750 ELC Toskana Exclusive (G) 4500 2100 2x1500 225/75 R 16 C 5 / 78 / 130 6 J x 16. ET 68 225/75 R 16 C 5 / 78 / 130 750 GELC Toskana Exclusive (G) 4500 2100 2x1500 225/75 R 16 C 5 / 78 / 130 6 J x 16. ET 68 225/75 R 16 C 5 / 78 / 130 595 AK LC 215/75 R 16 C 5/71/118 6 J x 16, ET 68 215/75 R 16 C 5 / 71 / 118 Toskana (E) 3500 1850 2000 615 AK GFLC Toskana (E) 3500 1850 215/75 R 16 C 5/71/118 6 J x 16. ET 68 215/75 R 16 C 5 / 71 / 118 2000 615 AK KLC Toskana (E) 3500 1850 215/70 R 15 C 5/71/118 6 J x 15, ET 68 215/70 R 15 C 5 / 71 / 118 2000 670 AK KMC Toskana (E) 4000 2100 225/75 R 16 C 5 / 78 / 130 6 J x 16. ET 68 225/75 R 16 C 5 / 78 / 130 2400 670 AK GFM Toskana (E) 4000 2100 2400 225/75 R 16 C 5 / 78 / 130 6 J x 16. ET 68 225/75 R 16 C 5 / 78 / 130 670 AK FLC Toskana (E) 4000 2100 2400 225/75 R 16 C 5 / 78 / 130 6 J x 16. ET 68 225/75 R 16 C 5 / 78 / 130 670 AK GFLC Toskana (E) 4000 2100 2400 225/75 R 16 C 5 / 78 / 130 6 J x 16, ET 68 225/75 R 16 C 5 / 78 / 130 225/75 R 16 C 6 J x 16, ET 68 225/75 R 16 C 5 / 78 / 130 725 AK GFMC | Sphinx (H) 4500 2100 2x1500 5 / 78 / 130

4500

2100

2x1500

225/75 R 16 C

5 / 78 / 130

6 J x 16, ET 68 225/75 R 16 C

5 / 78 / 130



770 AK GEMC | Sphinx (H)

^{*} No. of tire bolts / centralising collars / bolt circle

Increased and reduced loads for motor homes, 2007 season

| Hobby Model | Series | Туре | Basic vehicle | Motorization ⁵⁾ Standard Alternative(s) | | Chassis | Hitch | Seatbelt system | No. of seats ⁶⁾ | Techn. | Perm. | load rear |
|----------------|-----------------------|------|----------------------|--|--------------------|---------------------------------|----------|--------------------|----------------------------|---------------------------|-------|--------------|
| Model | | | | Standard | Alternative(s) | | | system | seats | overall weight [kg] | front | Teal |
| D 600 FL | Toskana (F) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | VP 230 | 4 | 4000 | 2100 | 2400 |
| D 600 GFLC | Toskana (F) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | VP 230 | 4 | 4000 | 2100 | 2400 |
| D 650 ES | Toskana (F) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | VP 230 | 4 | 4000 | 2100 | 2400 |
| D 650 FLC | Toskana (F) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | MP 230 | 4 | 4000 | 2100 | 2400 |
| D 650 FLC | Toskana Exclusive (G) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | MP 230 | 4 | 4000 | 2100 | 2400 |
| D 650 GFLC | Toskana Exclusive (G) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | VP 230 | 4 | 4000 | 2100 | 2400 |
| D 690 GELC | Toskana Exclusive (G) | F3 | | | | | | | | | | |
| D 750 FLC | Toskana Exclusive (G) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 50HT | AMC58G-A | MP 240 | 4 | 5000 | 2100 | 2x1500 |
| D 750 ELC | Toskana Exclusive (G) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 50HT | AMC58G-A | MP 240 | 4 | 5000 | 2100 | 2x1500 |
| D 750 GELC | Toskana Exclusive (G) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 50HT | AMC58G-A | MP 240 | 4 | 5000 | 2100 | 2x1500 |
| D 595 AK LC | Toskana (E) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Rahmenverl. | 2646-A | VP 230 | 4 | 4000 | 2100 | 2400 |
| D 615 AK GFLC | Toskana (E) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | VP 230 | 4 | 4000 | 2100 | 2400 |
| D 615 AK KLC | Toskana (E) | F3 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | Serien-Tiefrahmen + Absenkung | 2645-A | MP 231 | 4 | 4000 | 2100 | 2400 |
| D 670 AK KMC | Toskana (E) | F3 | | | | | | | | | - | |
| D 670 AK GFM | Toskana (E) | F3 | | | | | | | | | - | |
| D 670 AK FLC | Toskana (E) | F3 | | | | | | | | | | |
| D 670 AK GFLC | Toskana (E) | F3 | | | | | | | | | - | |
| D 725 AK GFMC | Sphinx (H) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 50HT | AMC58G-A | MP 251 | 4 | 5000 | 2100 | 2x1500 |
| D 770 AK GEMC | Sphinx (H) | F4 | FIAT Ducato 40 Heavy | 130 Multijet | 160 Multijet Power | AL-KO AMC 50HT | AMC58G-A | MP 250 | 4 | 5000 | 2100 | 2x1500 |

All measurements in [mm]

All weights in [kg]

- 1) Iveco. Fiat and Ford Van: incl. roof rail (series); other Ford models: without rear ladder and roof rail (special equipment)
- 2) Without exterior mirrors. without side blinkers
- 3) The towbar coupling is special equipment.
- 4) From the back edge of the driving unit to the back edge of the rear wall
- 5) FIAT 130 Multijet: 95.5 kW (130 PS); 160 Multijet Power: 115.5 kW (157 PS) FORD: 2.2 TDCi 81 kW (110 PS); 2.2 TDCi 96 kW (130 PS); 2.4 TDCi 85 kW (115 PS); 2.4 TDCi 102 kW (140 PS) IVECO 3.0 HPI 107 kW (146 PS); 3.0 HPT 130 kW (176 PS)
- 6) The number of seats may be reduced due to the additional weight of the special equipment.



| Trailing unloaded ³⁾ | load loaded ³⁾ | Max. total weight of mobile home | Caravan length ⁴⁾ | Total length ¹⁾ | Height | Width ²⁾ | Track front | rear | Wheel base | Pro- jec- front | tion rear ¹⁾ |
|---------------------------------|------------------------------|---|---------------------------------|-------------------------------|--------|---------------------|----------------|------|---------------|-----------------------|----------------------------|
| 750 | 1300 | 5300 | 4035 | 6476 | 2897 | 2330 | 1810 | 1980 | 3800 | 948 | 1728 |
| 750 | 1000 | 5000 | 4035 | 6476 | 2897 | 2330 | 1810 | 1980 | 3800 | 948 | 1728 |
| 750 | 1000 | 5000 | 4533 | 6974 | 2897 | 2330 | 1810 | 1980 | 3800 | 948 | 2226 |
| 750 | 1000 | 5000 | 4533 | 6974 | 2897 | 2330 | 1810 | 1980 | 3800 | 948 | 2226 |
| 750 | 1000 | 5000 | 4533 | 6974 | 2897 | 2310 | 1810 | 1790 | 3800 | 948 | 2226 |
| 750 | 1000 | 5000 | 4533 | 6974 | 2897 | 2310 | 1810 | 1790 | 3800 | 948 | 2226 |
| | - | | | | - | | | | | | |
| 750 | 1550 | 6000 | 5612 | 8053 | 2910 | 2310 | 1810 | 1860 | 4316 | 948 | 1989 |
| 750 | 1550 | 6000 | 5612 | 8053 | 2910 | 2310 | 1810 | 1860 | 4316 | 948 | 1989 |
| 750 | 1550 | 6000 | 5612 | 8053 | 2910 | 2310 | 1810 | 1860 | 4316 | 948 | 1989 |
| 750 | 1300 | 5100 | 3705 | 6146 | 3017 | 2330 | 1810 | 1980 | 3450 | 948 | 1748 |
| 750 | 1100 | 5100 | 4015 | 6456 | 3017 | 2330 | 1810 | 1980 | 3450 | 948 | 2058 |
| 750 | 1100 | 5100 | 4015 | 6456 | 3017 | 2330 | 1810 | 1980 | 3450 | 948 | 2058 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 750 | 1550 | 6000 | 5143 | 7620 | 3320 | 2330 | 1810 | 1860 | 3778 | 948 | 2094 |
| 750 | 1550 | 6000 | 5612 | 8089 | 3320 | 2330 | 1810 | 1860 | 4316 | 948 | 2025 |



Weight of accessories, 2007 season

| Object | Weight (kg) |
|--|-------------|
| Additional gel battery, 110 Ah | 39.0 |
| Additional gel battery, 80 Ah | 27.0 |
| Additional cross for roof rail | 3.0 |
| Air-conditioning for vehicle | 20.0 |
| Air-conditioning Blizzard 2100 (Dometic) (230 V) | 39.0 |
| Air-conditioning HobbyCool 25 (Dometic) | 25.0 |
| AL-KO electric lifting supports (rear) | 22.0 |
| AL-KO load carrier LST 150 | 53.0 |
| AL-KO motor scooter attachment kit for LST 150 | 4.0 |
| AL-KO towbar coupling AMC 58 A, detachable | 32.0 |
| Antenna Yachting 5, including mast | 4.6 |
| Bedspread | 1.5 |
| Bicycle carrier for garage and 3 bicycles | 5.5 |
| Bicycle carrier for 2 bicycles | 7.0 |
| Bicycle carrier for 3 bicycles | 9.0 |
| Carpet | 6-11 |
| Cruise control | 2.0 |
| Dashboard made of precious root timber | 0.5 |
| DVD navigation system with video system for reve | • |
| Exhaustor hood, Dometic | 3.0 |
| Extendable shelf for flat-screen monitor | 2.0 |
| External shower | 0.5 |
| External socket for gas | 1.0 |
| Fog lamps | 2.0 |
| Increased load (FIAT) | 40.0 |
| Insect schreen plissé | 2.0 |

| nsulation mats for driver's cabin | 2.0 |
|--|------|
| eather seating arrangement | 2.0 |
| oudspeakers (additional) in lounge | 1.7 |
| Map bag for passenger side | 1.0 |
| Notorcycle track for garage | 7.5 |
| Notorization 2.3 JTD instead of 2.2 JTD | 15.0 |
| Notorization 3.0 JTD instead of 2.3 JTD | 50.0 |
| Mud flaps, rear | 2.0 |
| larcotic gas warning device | 0.5 |
| lavigation system "Blaupunkt Travel Pilot Amsterdam" | 2.0 |
| Oven | 16.0 |
| arking distance control system | 2.0 |
| Remifront dimming system for driver's cabin (plissé) | 3.5 |
| Satellite system, 65 cm | 14.0 |
| Satellite system, 85 cm | 15.0 |
| Satellite reciever | 1.5 |
| Skylight with elec. fan and thermostat | 7.0 |
| Solar system with 2 modules, each 55 W | 16.0 |
| Sun awning Omnistor, 300 x 250 cm | 21.0 |
| Sun awning Omnistor, 350 x 250 cm | 25.0 |
| Sun awning Omnistor, 400 x 250 cm | 29.0 |
| Sun awning Omnistor, 450 x 250 cm | 39.0 |
| Sun awning Omnistor, 500 x 250 cm | 45.5 |
| owbar coupling, fixed | 18.0 |
| Iltrasound alarm system 12 V, incl. gas alarm system | 1.0 |
| Irban water connection | 0.5 |
| ideo system for reversing with flat-screen monitor | 2.0 |





3.3 **Leveling supports**

Leveling supports, standard design

The leveling supports are located at the rear of your mobile home.

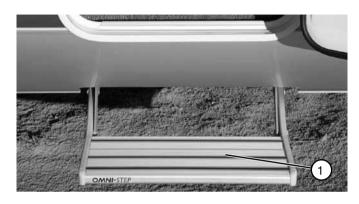
Swinging out the leveling supports

- To swing out the leveling supports, press fork (1) and pull towards hinge.
- Swing out leveling supports.
- If necessary, secure leveling supports from caving in.
- Place leveling support upon base (2).
- Use the crank to even out the leveling supports until the vehicle is in a level position.

Hobby

Retracting leveling supports

- Use crank to release leveing supports.
- Retract leveling supports.
- To lock leveling supports, press fork (1).



3.4 Entrance step

The alcove series mobile home has an electrically extendable entrance step (1).



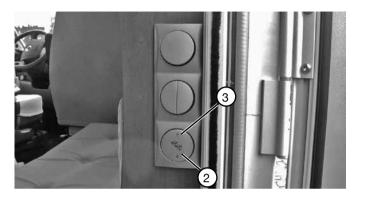
Do not step on the entrance step until it has been completely extended!



Mind the different heights of the steps and ensure that the ground in front of the entrance is firm and level.



The entrance step must be retracted before driving!



Extension

• Press down switch (2) located near entrance.

Retraction

• Press up switch (3) located near entrance. The entrance step is extended automatically.



Should the entrance step function poorly or not because of dirt accumulation or due to frost, the hinges must be cleaned or defrosted.



3.5 Externally mounted constructions

Registering accessories in the vehicle's documents

- Have your HOBBY dealer mount your externally mounted constructions.
- Drive your mobile home to the Technical Surveyance Association (TÜV).
- The TÜV will survey your externally mounted constructions and draw up an appropriate expertise.
- Take the expertise and the registration documents, Parts I and II, to the Driver and Vehicle Licensing Agency. They will copy the changes into the vehicle's documents.



Do not forget that towbar couplings, motorcycle carriers, leveling devices and/or additional spring blades must be registered.



Please note that mounting additional equipment reduces the load your mobile home can carry.



Chapter 4: Wheels, tires, brakes

4.1 Wheels

On your first drive with your mobile home, please check that your tire bolts are still securely tightened after having driven 50 km and, if necessary, tighten them with a torque of 160 Nm for 15" wheel rims (steel and light metal) and 180 Nm for 16" wheel rims (steel and light metal). After this, the tire bolts should be checked regularly that they are securely tightened.

4.2 Tires

Use only tires that have been entered in the vehicle's documents. Other tire sizes may only be used if they have been permitted by the manufacturer of the basic vehicle.

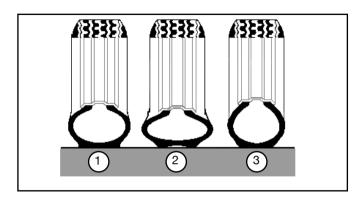
Driving to protect your tires

- · Avoid braking sharply and racing starts.
- Avoid long drives on poor roads.
- Never drive an overloaded vehicle.



Tubeless tires have been mounted on your HOBBY mobile home. Under no circumstances may tubes be inserted in these tires!





4.3 Inflation pressure

The inflation pressure of all tires as well as the spare tire should be checked approx. every 4 weeks and before you go on longer journeys.

The following applies when checking inflation pressure:

- Check the pressure only when the tire is cold.
- If checking or correcting the pressure of a warm tire, the pressure must be 0.3 bar higher than for a cold tire.

The following applies for inflation pressure:

- correct inflation pressure (1).
- inflation pressure too low (2).
- inflation pressure too high (3).



If the pressure is too low, this may cause overheating of the tire, possibly resulting in severe damage to the tire.



For the correct inflation pressure, please refer to the table in the chapter on "Technical Data" or the operating instructions for the basic vehicle.

4.4 Tread depth

Replace your tires as soon as the tread depth is only 1.6 mm.

Tires may not be exchanged crosswise, i.e. from the right side of the vehicle to the left and vice versa.



Tires age even if they are used seldom or not at all.

Tire manufacturers' recommendations

- Irrespective of their tread depth, tires should be changed every 6 years.
- Avoid hard impacts against curbs, potholes or other obstacles.



4.5 Wheel rims

Use only those wheel rims listed in the vehicle's documents. Please observe the following points, should you wish to use other wheel rims.

The following applies when using other wheel rims:

- Size,
- construction.
- injection depth and
- carrying power must be sufficient for the permissible total weight.
- The cone of the fastening screw must correspond to the construction of the wheel rim

Adaptations are only permitted if these have been released by the manufacturer.



For explicit information, please refer to the General Type Approval ("Allgemeinen Betriebserlaubnis", ABE).

Aluminium wheel rims must be tested separately for each type of vehicle. The screws used on aluminium rims may not be used for steel rims. When using aluminium rims, tires may not be changed from the front to the back or vice versa.

4.6 Spare tire



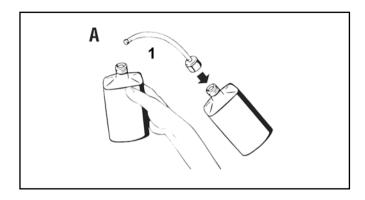
A spare tire is not included in the scope of delivery.



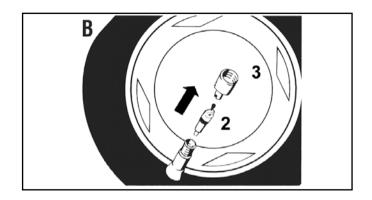


4.7 Repair kit

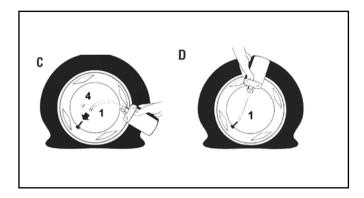
Do not use the tire repair kit if the tire was damaged as a result of driving without air. Small cuts, especially in the tire tread, can be resealed using the tire repair kit. Do not remove foreign objects (such as screws or nails) from the tire. The tire repair kit can be used as long as the outside temperature is approx. -30° C or higher.



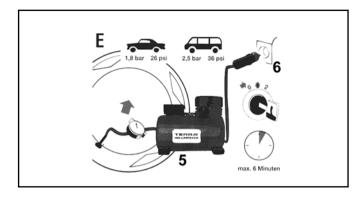
A Shake the bottle. Open the fill hose (1) on the bottle (foil seal is thereby punctured).



B Unscrew the valve cap from the tire valve. Remove the valve insert (2) with the valvecore remover (3). Do not lay the valve insert (2) down in sand or dirt.



- **C** Pull the stopper (4) from the fill hose (1). Push the fill hose onto the tire valve.
- D Hold the bottle down with the filling tube and then press them together. Press the entire bottle contents into the tire. Pull the fill hose off (1) and screw the valve insert (2) tightly into the tire valve with the valve-core remover (3).



E Open the air hose (5) on the tire valve. Insert the plug (6) into the cigar lighter socket. Then pump the tires (Fig. 7). do not operate the electric air pump longer than 8 minutes! Danger of overheating! If sufficient air pressure is unattainable, drive 10 meters (either forward or in reverse) so that the sealant can be evenly distributed within the tire. Repeat the pumping process. Resume driving immediately, so that the sealant can be evenly distributed within the tire.

Maximum speed: 80 km/h. Drive carefully, especially in curves.

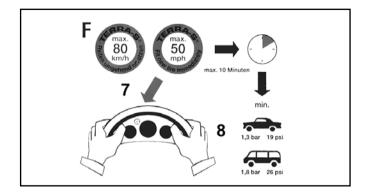
Check tire pressure after driving 10 minutes. If the tire pressure has fallen under this minimum value (8), you

may not drive any further.

If the minimum value is still indicated (8), correct the tire pressure according to the tire pressure table in the gas bottle container. Drive carefully to the nearest mechanic and have the tire replaced.



Danger of accidents! If the required tire pressure is still unattainable, the tire is too severely damaged. In this case, the tire repair kit can no longer provide an effective seal. Therefore, do not drive any further. Notify a service station or the 24-hour service hotline.



F Adhere the provided sticker to the combination instrument within sight of the driver. Dispose of used tire repair kit at a service station.



Danger of accidents! Have the tires replaced at the nearest service station.



Warnings when changing tires



The jack may only be inserted in the appropriate location holes!

If the jack is inserted in other positions, this may lead to damages to the vehicle or even accidents if the vehicle falls off the jack.



The jack may only be used for changing tires. It may not be used for carrying out work underneath the vehicle!



The leveling supports may not be used as jacks!



When changing tires, please refer to the operating instructions of the manufacturer or AL-KO's Operating Manual.

Changing a tire

- If the surface is too soft, place a firm base under the jack, e.g. a wooden board.
- Insert the jack in the appropriate location holes.

- Give the spanner several turns to loosen the fastening screws of the wheel, but do not remove them.
- Lift the vehicle until the wheel is 2 to 3 cm above the ground.
- Remove the fastening screws and take off the wheel.
- Place the spare tire on the wheel hub and centre it.
- Screw in the fastening screws and tighten them lightly crosswise.
- · Let the jack down and remove it.
- Tighten the fastening screws evenly, using the spanner. Refer to the basic vehicle manufacturer's operating instructions for the desired torque value.
- Place the wheel you have removed in the spare tire carrier and fasten it.



Your vehicle is equipped with a standard tire repair kit. Please speak to your HOBBY dealer about the possibilities for subsequently mounting a spare tire.



4.8 Brakes

The components in the brake system are part of the General Type Approval ("Allgemeinen Betriebserlaubnis", ABE). If you change the components in the brake system, the type approval expires. Any changes are only possible if they have been released by the manufacturer.



In your own interests, you should have the brakes checked regularly by your Fiat or Peugeot repair shop.

The following applies when maintaining the brake system:

- Check the level of brake fluid regularly.
- Check the brake system and brake hoses regularly for leakage. Martens often gnaw at rubber hoses.
- Use only those brake oils that have the same features as the oils that are already in the brake circuit.



For further information, please refer to the Fiat Ducato operating manual.



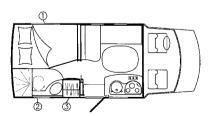
Chapter 5: Exterior Structure

5.1 Overview of tank and service flaps

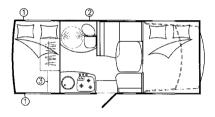
D595 AK LC Toskana 2007



D600 FL Toskana 2007



D615 GFLC Toskana 2007



D615 AK KLC Toskana 2007

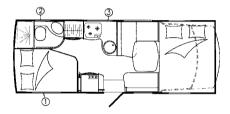


Storage flap (1)

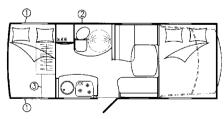
Toilet flap (2) Gas box flap (3)

Hobby

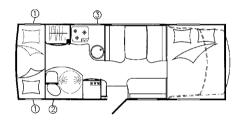
D670 AK FLC Toskana 2007



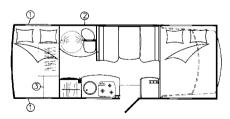
D670 AK GFLC Toskana 2007



D670 AK KMC Toskana 2007



D670 AK GFM Toskana 2007



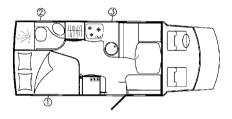
Storage flap (1)

Toilet flap (2)

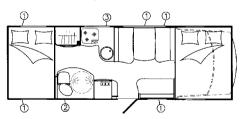
Gas box flap (3)



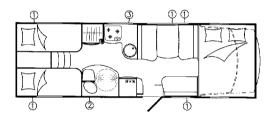
D650 FLC Toskana 2007



D725 AK GFMC Sphinx 2007



D770 AK GEMC Sphinx 2007



Storage flap (1)

Toilet flap (2)

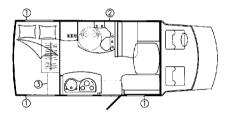
Gas box flap (3)

D650 FLC Toskana Exclusive 2007

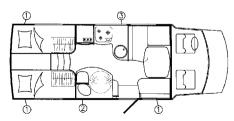


Hobby

D650 GFLC Toskana Exclusive 2007

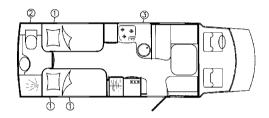


D690 GELC Toskana Exclusive 2007



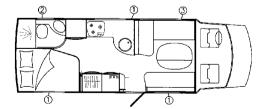
D750 ELC Toskana Exclusive 2007

D750 FLC Toskana Exclusive 2007



Storage flap (1)

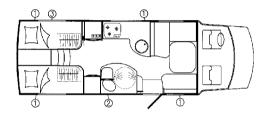
Toilet flap (2)



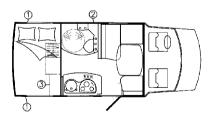
Gas box flap (3)



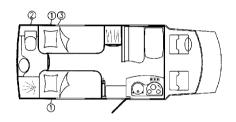
D750 GELC Toskana Exclusive 2007



D600 GFLC Toskana 2007



D650 ES Toskana 2007



- Storage flap (1)
 - Toilet flap (2)
- Gas box flap (3)

Hobby

5.2 Ventilation

The following applies for ventilation:

Ventilation is important if you want to feel comfortable in your mobile home. No-draught ventilation has been integrated above the driving unit in your mobile home. The roof lights ensure ventilation. Never interfere with the way in which they operate.

Appropriate covers can be used to close the ventilation of the refrigerator, provided it does not run on gas.



Note the information given on the covers. They may only be used when the refrigerator is operated electrically in winter. For more information, please refer to the refrigerator manufacturer's operating instructions.



Watery vapour is produced while cooking, from wet clothes, etc. Every person transpires up to 35 g of water per hour. Therefore, depending on the relative humidity, the windows and skylights must be opened for further ventilation (see also "Operating in Winter").



Refrigerator

Grates supply the refrigerator with fresh air from outside to ensure sufficient refrigerating capacity. The grate for fresh air intake (1) is on the outside wall of the vehicle. The grate for expelling used air (2) is above the grate for fresh air intake.

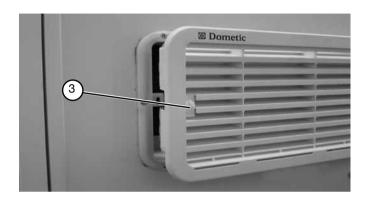


Danger! You can suffocate if the ventilation openings are blocked! Never block ventilation openings.



Apply special covers when operating the mobile home in winter. These covers can be purchased from your dealer.







We recommend that you remove the ventilation grate if the outside temperature is very high. This allows more air to permeate to the refrigerator, intensifying refrigeration.

Removing the ventilation grate

- Turn the screw (3) as far to the left as it will go.
- Carefully pull out the ventilation grate, starting on the left.
- Then remove the ventilation grate.



Heating

The heating system is supplied with fresh air from outside (1). This ventilation flap also permits exhaust air from the system to escape.



Danger! You can suffocate if the ventilation openings are blocked!

Never block ventilation openings.



5.3 Opening and closing doors and flaps

Keys to the vehicle

The following keys are supplied with the motor home:

- one master key
- two keys for the following locks on the basic vehicle:
- driver's door and passenger door
- a code card



Note the manufacturer's operating instructions for the basic vehicle.

- two keys that fit the following locks on the structure:
 - entrance door
 - service flaps
 - toilet flaps



In addition, a self-adhesive aluminium plate is supplied, engraved with the number of the key for the basic vehicle.



Entrance door

Opening

- Use key to unlock door.
- Pull on door handle.
- Open door.

- Close door.
- Turn key until you hear the bolt lock into place.
- Turn key back to verticle position and pull it out.





To avoid damaging the lock and the doorframe, the inner door handle must be in a horizontal position and not slanted upwards.



Remember that the entrance door is your escape route in an emergency. Never barricade the door from the outside!



Luggage trunk flap

Opening

- Use key to unlock flap.
- Place your hand over the lock and give the flap a strong push inwards.
- Pull the flap upwards to open.

- Pull the flap down to close.
- Lock it with the key.





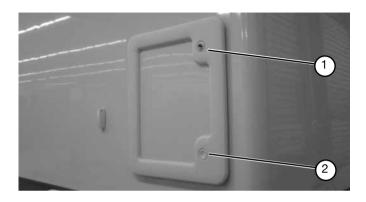
Garage flap

Opening

- Use key to unlock flap.
- Place your hand over the lock and give the flap a strong push inwards.
- · Open the flap.

Closing

- Close the flap.
- Lock it with the key.



Toilet flap

Opening

- Use key to unlock flap (1).
- Press both buttons (1 and 2) and open flap.

- · Press flap until it locks into place.
- Use key to lock flap (1).



Exterior gas supply

At the customer's request, the mobile home can be fitted with an exterior gas supply (3). Equipment that uses gas, such as a gas grill or a gas lamp, can be supplied from outside the mobile home. The exterior gas supply is located below the gas box flap (2).

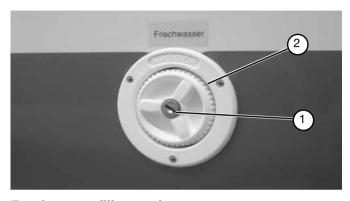
Opening

• Pull the cover plate (1) of the flap towards you.

Closing

• Press the cover plate (1) of the flap shut until you hear it lock into place.



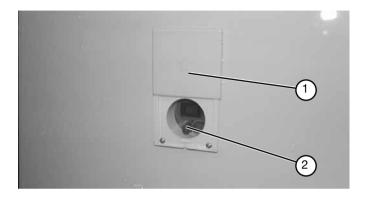


Fresh water filler neck

Opening

- Use key to unlock (1).
- Turn lid (2) firmly and remove.

- Insert lid (2) and turn it closed.
- Use key to lock (1).



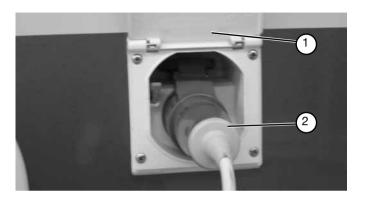
Water supply for exterior shower (special equipment)

Opening

• Slide cover flap (1) up to gain access to water supply.

Closing

- Remove hose for exterior shower from branch neck (2) and insert protective cap.
- Slide cover flap down.



Exterior socket

Opening

• Take hold of the bottom of the cover flap (1) and pull it upwards.

- Remove CEE plug (2).
- Push cover flap (1) down until you hear it lock into place.

5.4 Exterior mirror

Please refer to the operating instruction for the basic vehicle for information on how to adjust the exterior mirrors of your mobile home.

5.5 Roof rail



The following applies when loading the roof rail:

- Store only light luggage pieces on the roof.
- Lash the roof load securely, ensuring that it cannot slide and fall off.
- Do not overload the roof! The heavier the roof load, the worse the performance of the vehicle.



The maximum overall load is 50 kg.

- Observe the maximum permissible axle loads when loadings.
- Add the measurements of the roof load to the height of the vehicle.
- Place a note with the total height in a visible position in the driver's cabin to avoid having to calculate this when you drive under bridge or through passages.



Roof loads may only be transported on an additional, suitable roof rack.



Chapter 6: Electrical Installations

6.1 Safety instructions

The following must be observed:

- Do not remove the signs on electrical components giving safety instructions or danger warnings.
- Do not use the installation compartments for the caravan battery, on-board control panel, battery charger and 230 V connector box as additional storage room.
- Smoking and open fire are forbidden when checking electrical equipment.
- Only authorised and experienced workshops may carry out electrical repairs.
- Inexpert handling of the vehicle's electrical system may endanger your own life as well as that of others.
- Use only weatherproof, 3-wired extension cable and shockproof plug or CEE plug and coupler when hooking up to an external 230 V network.



• The 230V fuse box is located in the clothes closet.

6.2 HOBBY on-board control panel

The electric power supply is provided via the HOBBY on-board control panel in connection with an automatic battery charger.

Main elements of the electric system

- "PC-100HB and PC-100HB T" CONTROL PANEL controls the electric power consumers,
- 12V DISTRIBUTON MODULE "DS-300HB" main relay, battery parallel relay (12V - 70A), refrigerator relay, pump relay, charging facility B1, safety fuses.
- BATTERY CHARGING DEVICE charges the battery in buffer operation.



- PROBE WITH ROD measures contents of fresh water tank. 4-state visualization
- PROBE WITH SCREWS "SSP" -LED display shows when sewage tank is full
- CONSUMER BATTERY "B2" supplies all consumers
- VEHICLE BATTERY "B1"
- GENERATOR charges both the vehicle and consumer batteries at the same time
- 230V MAIN SWITCH supplies and protects the 230V consumers
- 50A FUSES VEHICLE/ and CONSUMER BATTERIES

Advice and instructions

Important!

- Any changes to the electrical installation may only be carried out by a professional electrician.
- · Disconnect the battery and switch off the 230V mains before carrying out any maintenance work.

Batteries

- Please observe the battery manufacturer's operating instructions.
- The acid in the battery is poisonous and corrosive. Avoid contact with eyes and skin.
- If the battery is completely empty, it must be recharged for

- a minimum of 10 hours. If the battery has been empty for at least 8 weeks, it may be damaged.
- Check the amount of liquid in the batteries (acid batteries) regularly; gel batteries require no maintenance, but must continuously be recharged.
- · Check the level of the battery fluid regularly (lead storage battery).
- Check that the clamps are still on properly and remove any lavers of oxide.
- Unclamp the minus pole if the battery is not being used for a longer period of time (more than 1-2 months).
- Should the consumer battery be removed, isolate the plus pole (to prevent short circuits when turning on the motor).
- If you are stopping in one place for a very long time, unclamp the battery or recharge it regularly.

Battery charger

- Install the battery charger in a dry and well-aired room.
- This device may only be mounted by a professional.
- In case of misuse, the guarantee and the manufacturer's liability will no longer apply.
- Do not carry out any maintenance work as along as the 230V mains is still connected.
- Never plug up the ventilation on the lid; ensure that there is sufficient ventilation.



06-3 | Electrical Installations

 Turn off the switch before disconnecting the battery charger from the 230V mains.

Tank probes

 To avoid incrustations, especially in the sewage tank, never let the water in the tanks stand for too long.

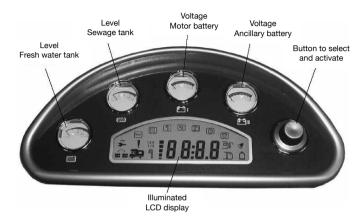
230V main switch

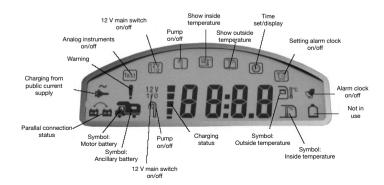
- Before removing the lid, check that the plug for the electric mains has been unplugged.
- To avoid damage to the module, ensure that the plugs are plugged in firmly.
- To switch off the power supply for the entire system, set the main switch 230 to "0" (OFF).
- Connect and disconnect the system to the 230V external mains only when the main switch is off.
- Should the switch be automatically interrupted, check the system for defects before switching the power supply back on.

Fuses

- Only replace defect fuses after you have found the reason for the defect and fixed it.
- The new fuse must have the same amperage as the old one.

Toskana/Toskana Exclusive Control Panel







Operating instructions Charger LA240 / LA330 control panel TCP HO 06 with 12V distribution

Dear Customer: please take careful note of the following instructions for operating your control panel with charger and 12V distribution so that this equipment will provide you with many years of good service.

A) General description

The control panel TCP HO 06, charger LA240/LA330 and 12V distribution are all part of the electronic equipment of a mobile home in which a series of practical as well as necessary functions for your motor home have been installed.

The devices are equipped with the following functions:

I.) Operating panel

- 1. button for selecting and activating a display or setting various functions
- 2. analog voltmeter with dial illumination for battery I (motor battery) and battery II (ancillary battery)
- 3. analog tank level sensor with dial illumination for fresh water and sewage tanks
- 4. illuminated LCD display to show the following functions:

- parallel connection for ancillary and motor battery
- charging from public current supply
- warning if battery voltage is low
- 12V main switch with display and protection against total discharge
- pump switch with display
- progress bar to show charging status when charging from public current supply
- 4-digit digital display
- outside temperature display
- inside temperature display
- clock
- alarm clock

II.) Charger

1. electronic regulation for charging attached batteries

III.) 12V distribution

- 1. battery cutoff relay
- 2. 12V main relav
- 3. pump relay
- 4. refrigerator relay



- 5. D+ relay/exterior lighting
- 6. 12V flat pin fuse for the different 12V consumers
- 7. display panel connection
- 8. motor and ancillary battery connection
- 9. tank sensor connection
- 10. charger connection

B) Description of individual functions

I. Operating panel

1. Button for selecting and activating a display or setting various functions

The central operating element on the panel is the button for selecting and activating functions. The different functions on the panel are selected by turning the button. When a function has been selected, the frame of its corresponding symbol is illuminated. The function selected by turning the button is activated by pressing the button.

2. Analog voltmeter with dial illumination for battery I (motor battery) and battery II (ancillary battery)



Turn the button to select the menu item "Test" for the analog display of the voltage of the motor and ancillary batteries and then press the button to activate this function. Only the scope of interest, namely 8 to 15 volts, is shown. The ideal status lies between 12 and 14V and is marked accordingly on the scale. While they are shown, the analog instruments are illuminated. After a period of approx. 12 seconds, both the display and the illumination are automatically turned off. Should the voltage of the ancillary battery fall to a value below 11V, as many 12V consumers as possible must be turned off and the ancillary battery must be charged by the generator or by connecting it to the public current supply. The voltage of both batteries can be read off irrespective of the position of the main switch.

3. Tank level sensor with dial illumination for fresh water and sewage tanks



Turn the button to select the menu item "Test" for the analog display of the levels of the fresh water and sewage tanks as well as the voltage of the batteries and then press the button to activate this function. The fresh water and sewage tanks are displayed in analog mode in four steps. To obtain a correct display, the vehicle should be in a horizontal position when the



level of the tanks is read off. Touch a key to illuminate the instrument. The contents of the tanks can be read off irrespective of the position of the main switch. Just as for the display of the voltage of the batteries, the display and illumination turn off approx, 12 seconds after you let go of the button.

4. Illuminated LCD display to show the following functions:

Parallel connection of ancillary and motor batteries (see figure for LCD display)

The parallel connection of both batteries is carried out in two operating states:

- 1. The motor of the vehicle is running. The generator charges both batteries.
- 2. If you charge the ancillary battery by connecting it to the public current supply it will surpass a voltage of 13.5V. Once this voltage is reached, both batteries are connected in parallel and charged by the built-in charger.

Warning (see figure for LCD display) if battery voltage is low

Should the voltage of one of the two connected batteries reach a critically low level, the warning light in the LCD display will start to blink.

At the same time, the corresponding symbol shows you which battery has reached a critically low level and the voltage measured for the battery is displayed digitally.

12V main switch with display and protection against total discharge



The 12V main switch is turned on and off by selecting the menu item "12V main switch" and pressing the button. The symbol "12V main switch on/off" in the LCD display shows you if it is on or off. The 12V main switch is used to turn several 12V consumers on and off. This switch does not turn the consumers directly on and off. When the main switch is on, downstream electronics check the voltage of the ancillary battery. Should this voltage fall below approx. 10.5V, all of the consumers are switched off by means of a relay, irrespective of whether the main switch is on or off. This prevents the battery from being damaged. Should the voltage rise again to a value above 11.5V, the relay for the main switch is turned on again. Therefore, should the consumers be switched off because of this protection against total discharge, the battery must be charged by connecting it to the public current supply or by the generator. If the protection against total discharge has been activated, a warning is set off in the LCD display and both the warning light and the



symbol for the 12V main switch start to blink. Since there are electronics downstream from the main switch that turn a relay on and off, a small amount of current (approx. 130 mA) is drawn off the battery when the main switch is turned on and all 12V consumers are turned off. Therefore, this switch should be turned off if the vehicle is standing still for a longer period of time in order to avoid discharging the battery unintentionally. The relay for the main switch is built into the 12V distributor.

Pump switch with display



The 12V pump is turned on and off by selecting the menu item "Pump" and pressing the button. You can read off its status by checking the "Pump on/off" symbol in the LCD display. The pump can only be turned on when the main switch has been turned on. If the pump has been turned on and the main switch is turned off, the pump circuit will be turned off as soon as the main switch is turned off.

Progress bar to show charging status when charging from public current supply

A 5-level progress bar shows the charging status when charging from the public current supply. If only the lower segment is illuminated, the ancillary battery is being charged with constant current. (Symbols for public current supply and ancillary battery are also illuminated.) The voltage of the battery is below 14 volts.

If two segments of the progress bar are illuminated, the battery has reached a voltage of approx. 14V and both batteries are connected in parallel. The symbols "Charging from public current supply", "Parallel connection", "Motor battery" and "Ancillary battery" are displayed simultaneously.

After a certain period of time has elapsed in which both batteries are in this voltage state, the third segment of the progress bar is illuminated.

The fourth segment is illuminated when both batteries have been charged with 14.2V for a period between 2 and 6 hours, respectively (defined on charger using the "Gel/Wet" switch).

All 5 segments on the progress bar are illuminated with the float charge voltage of 13.8V has been held for 2 hours.

4-digit digital display

Depending on the operating status, the following functions are shown on the 4-digit digital display:



- current time
- time set for alarm clock to ring
- value of battery voltage
- temperatures

Outside temperature display



Select the menu item "Display outside temperature" to turn on the outside temperature display and press the button. The temperature is shown on the 4-digit digital display and the "Outside temperature" symbol is illuminated.

Inside temperature display



Select the menu item "Display inside temperature" to turn on the inside temperature display and press the button. The temperature is shown on the 4-digit digital display and the "Inside temperature" symbol is illuminated.

Clock



Select the menu item "Set/show time" and press the button once to display the time. The time is shown on the 4-digit digital display.

Press the button again for a longer period of time if you want to set the time. When the hours blink, set the hour by turning the selection button forwards or backwards. Pressing the button again causes the minutes to blink, allowing you to set the minutes by turning the button forwards or backwards. Press the button again to exit the "Set time" mode.

Alarm clock



Select the menu item "Set waking time; Wake: on/off" and press the button once. The waking time is shown on the 4-digit digital display. Press the button again to switch the "Waking" status; this is confirmed by the "Wake: on" symbol. Setting the alarm clock functions in the same manner as setting the time.

General information on digital display

Basically, the display is illuminated by pressing the button for selection and activation. Should this button not be pressed for a certain amount of time, the illumination will be turned off.



If neither the 12V main switch nor charging from public current supply have been switched on, the display of the function last selected will be turned off completely after a certain period of time. If current is supplied or if the 12V main switch has been turned on, the function last selected will continue to be displaved until a new function is selected.

II. Charger

The charger ensures that the connected batteries are charged in accordance with characteristic curve I U1 U0. This means that the connected battery is first charged with constant current of approx. 17 A (LA240) 23 A (LA330) up to a voltage of 14.2V. When the battery has reached a voltage of 14.2V, the motor and ancillary batteries are connected in parallel in the 12V distributor. When the voltage reaches 14.2V, the voltage of the battery is held at 14.2V for a certain period of time. This period during which the voltage of the battery is held constant at 14.2V depends on the position of the sliding switch on the charger. When it is set to "Gel", the period lasts for approx. 6 hours; when set to "Wet", it lasts for approx. 2 hours. Should the voltage of the battery not fall to a value below 12.5V while charging because of consumers that draw power from the battery having been switched on, the float charger will be switched on. This means that the voltage of the battery is held constant at 13.8V. The different states during charging of the

battery are shown on the progress bar in the LCD display. (Please refer to the description of the progress bar.) The characteristic charging curve described corresponds with a characteristic curve of I U1 U0 and is suitable for both closed as well as open types of batteries. (Please set the sliding switch to the appropriate position on the charger. The charger is suitable for battery capacities from 60 Ah upwards. Should the temperature of the charger become unacceptably high due to high charging currents over a long period of time or due to an environmental temperature that is too high because heat has accumulated at the place of installation, the fan-out current of the charger will be reduced until the temperature has dropped. Plese note that the charger must be connected to a battery. Wiring the batteries to the charger the wrong way round can damage the charger. Therefore, please ensure that the wiring is correct when attaching a battery to the 12V distributor. Batteries may only be connected or disconnected when there is no connection to the public current supply. Also, please note the battery manufacturer's instructions. The charger is connected to the 12V distributor by means of a special cable with connectors that are protected against reverse polarity.

The time required to optimally recharge a discharged battery by connecting it to the public current supply depends on how much of the battery's capacity must be recharged and how many consumers are being powered from the battery while it



is being recharged. It may be assumed that a battery has been charged to 95 % of its full load when the progress bar in the LCD display is fully illuminated. A parallel circuit relay has been mounted in the 12V distributor which interconnects the motor and ancillary batteries when they are attached to the public current supply and their voltage is higher than 13.5V. Therefore, when the ancillary battery is in a correspondingly high charged state, the motor battery is also charged by the charger when attached to the public current supply. The two batteries are separated when the voltage of both batteries drops to 12.5V.

III. 12V Distributor

1. Battery cutoff relay

With a voltage of 13.5V, while driving or charging the battery when attached to the public current supply, both batteries are connected in parallel and, therefore, jointly charged. The corresponding symbol for this parallel connection is shown in the LCD display. Should this parallel connection be unsuccessful while driving, the "D+" connection to the distributor must be checked. This generator signal must always be alive whenever the motor is running. The parallel connection is only effected if the voltage of the motor battery reaches a minimum of 8 volts. It is possible to read that the generator has been connected

while the motor is running by changing the voltage of the ancillary battery, which is shown when you press the button. The charging current to the ancillary battery is dependent on the charging current to the motor battery and on the current that is required to supply power for the vehicle's functions (light. windshield wipers) and for the 12V consumers that have been switched on in the caravan. The less power that is required by the generator for these functions, the shorter the time required to fully charge the ancillary battery during the drive. Please note that large amounts of equalizing current can also flow while driving if the charging status of both batteries varies significantly. This may cause one of the two 40A fuses that protect the batteries to blow.

2. 12V main relay

The 12V main relay switches the corresponding electric circuits on and off. It is controlled by the corresponding switch in the control panel. If the voltage of the ancillary battery drops to a value below 10.5V, the main relay will switch off the corresponding consumers to prevent the battery from being permanently damaged due to total discharge. Please note that only those consumers are switched off that are activated by means of the main relay. (Please refer also to the 12V main switch on the control panel.)



3. Refrigerator relay

It is possible to operate the refrigerator on 12V via the motor battery and the generator when the motor of the vehicle is running. When the motor has stopped, 12V operation of the refrigerator is automatically turned off again to avoid discharging the batteries by accident. 12V operation of the refrigerator is only carried out while driving if the voltage of the motor battery shows at least 8V at the charging station and the D+ signal is connected to the charging station.

4. Pump relay

The pump switch built into the control panel is downstream from this relay. All of the switches built into the water faucets also affect this relay. Therefore, the pump current is not connected directly via the attached switches; instead, only a small amount of exciting current (approx. 120 mA) flows via these switches. The pump switch on the panel switches plus to the relay coil while all of the switches on the water faucets are parallel; they switch the mass of the relay coil.

5. D+ relay / Exterior lighting

This relay switches off the 12V electric circuit "Exterior lighting" while you are driving. Furthermore, there is an "increased D+ signal" at the relay output which can be used for further applications in the caravan and no longer charges the D+ signal in the generator.

6. Flat pin fuse for 12V electric circuits

9 flat pin fuses have been inserted in the 12V distributor to protect the different 12V electric circuits. Plese refer to the corresponding diagram for the exact fuse protection values and electric circuits. Should one of these fuses blow, the cause of the overload or short circuit must first be eliminated. Only fuses with corresponding fuse protection values may be used to replace blown fuses.

7. Display panel connection

A 16-pole plug-in connection, protected against reverse polarity, connects the display panel to the 12V distributor.



8. Motor and ancillary battery connection

Motor and ancillary batteries and their joint mass are connected to the 12V distributor by means of grommets on the corresponding screws. Please pay careful attention that they are correctly connected to the printed circuit board.

9. Tank sensor connection

The tank sensors for the sewage and fresh water tanks are connected to the 12V distributor by means of corresponding cables which are protected against reverse polarity. Downstream electronics are designed for tank sensors with 5 stainless steel probes and transmit the contents of the tanks to the instrucments in the control panel: empty; 1/4; 1/2; 3/4; full.

10. Charger connection

The charger is connected to the 12V distributor by means of a connector that is protected against reverse polarity.

D) General information

If the caravan stands in one place for a longer period of time (longer than 3 weeks) without being connected to the public current supply, you should disconnect the batteries after they have been charged. Charge the batteries before you start your journey.

You can determine if a battery is defect by checking the vol-

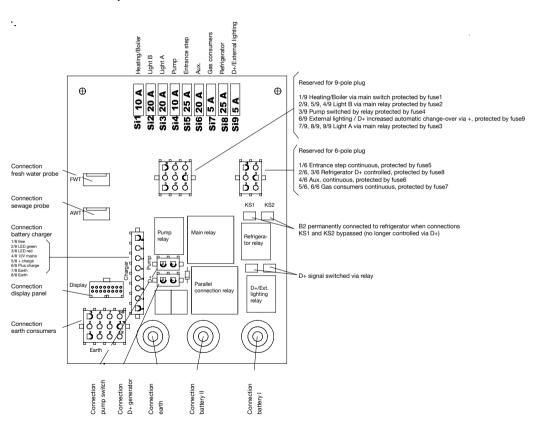
tage: this will guickly drop to a value below 11V when consumers are switched on, even though it has been charged for a longer period of time. If the voltage of the battery never reaches a value of 14.2V while charging from the public current supply if it has been charged for days, and no consumers have been switched on, the battery should also be checked for defects. In addition, please note the instructions of the battery manufacturer.

Should defects occur in the functions of this device, check all of the fuses and connections to the batteries, the D+ siand all of the connectors that can be externally accessed. Whenever you do anything with these devices, they must always be volt-free to avoid short circuits and contact with line voltage.

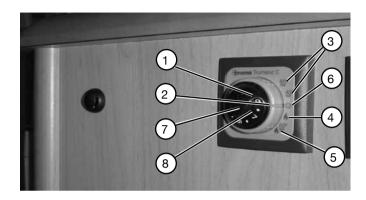
Measurement sensors have been built into the water tanks which use stainless steel probes to check the level in the tank. If the measuring heads of these probes are dirty or if there is moisture in the connectors of the cable to the display panel, this may result in false indications.



12 V - Distribution panel







Gas operation (heating and warm water)

- Dial for room temperature (1)
- green "operating" control light (2)
- summer operation (water temperature 40°C or 60°C (3)
- winter operation (heating without need for warm water) (4)
- winter operation (heating with need for warm water) (5)
- rotary switch "off" (6)
- yellow control light: "boiler in heating phase" (7)
- red control light: "malfunction" (8)



For further information, please refer to the enclosed TRUMA operating manual.

6.3 Electric power supply

Your mobile home has the following connections for electric power supply:

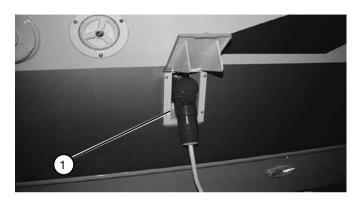
- electric mains (a.c. voltage 230 V)
- caravan battery (d.c. voltage 12 V)

Electric power supply from the electric mains

The 230 V system is protected by a 2-pole circuit breaker with 16 A. The circuit breaker is located behind the driver's seat Should there be a malfunction, the passenger circuit breaker opens the entire 230 V circuit. In most cases, such a malfunction is caused by a defect piece of electric equipment or a defect in its supply line.

- Repair the defect before switching the circuit breaker on again.
- If the defect cannot be repaired, consult an experienced electrician.





The following applies for the electric mains:

the power supply lead may not be longer than 25 m.



If you are using a cable drum without protection against overheating, the electric cable must be completely unwound from the cable drum.

- Use only plugs and cables that meet CEE standards.
- First, make the connection to the main socket (1) of the vehicle.
- Then insert the other plug in the live socket.
- Follow this sequence in reverse when you pull out the plug.



6.4 Function of the power generating unit

Position of the battery charger

The charger is located under the passenger seat (depending on the floor plan).

Operating with 230 V electric mains

After switching on the master switch on the HOBBY on-board control panel, the caravan battery will be charged by the battery charger in the mobile home.



Charging procedure

The charging procedure is dependent on the battery voltage of the caravan battery:

- Charge until the battery voltage has reached 14.4 V.
- Switch off the battery charger until the battery voltage has sunk to 13.8 V.
- Recharge when the battery voltage sinks below 13.8 V.
- Make a parallel connection and charge the engine battery as well as the caravan battery when the battery voltage sinks below 13.5 V.
- Separate the engine battery and the caravan battery when the joint battery voltage sinks below 12.5 V.



The battery voltage of both the engine battery and the caravan battery can be checked continuously on the on-board control panel located above the entrance door.



The battery charger only works if the batteries have been inserted with their poles in the right direction.



A discharged caravan requires a charging period of approx. 12 hours on the electric mains to completely recharge itself. This charging period must be extended accordingly if equipment that uses 12 V is switched on at the same time.

Protection against total discharge

If the battery voltage of the caravan battery sinks below 10.5 V, a relay shuts down all the equipment that uses voltage.



If the protection against total discharge takes effect, turn off the 12 V master switch to avoid an additional discharge of the caravan battery.



Function of the battery charger

Protecting the device

If the battery charger should become hot because of high environmental temperatures or high charging currents, a built-in thermal switch turns off the battery charger until the temperature in the battery charger has dropped again.

Checklist

- Turn off the motor.
- Turn off the mains switch on the battery charger.
- Connect the battery charger to the mains supply.
- Switch on the 12 V master switch.
- Turn off all equipment (except refrigerator) that uses 12 V.
- Turn on the mains switch on the battery charger.

The voltage of the caravan battery must rise to a maximum voltage of 14.4 V.

If this does not happen after using the built-in battery charger to charge the battery, check the following:

- Has the battery charger been properly attached to the network?
- Is the mains fuse of the battery charger functioning properly?

- Is the battery voltage of the battery charger above 1 volt?
- Have the poles of the caravan battery been attached properly?
- Is the connection between the battery charger and the onboard control panel functioning properly?

Operation when the motor is running

As soon as the motor is running, a relay connects the starter battery and the caravan battery in parallel. The D+ signal sits close to the dynamo. Therefore, the dynamo charges both batteries. If the D+ signal no longer sits close to the dynamo, the two batteries will be separated from each other again. In this way, the starter battery cannot be discharged by equipment in the caravan.

The 12 V supply for the refrigerator only functions when you are driving. If the motor has stopped, the 12 V operation of the refrigerator is automatically turned off again.



To charge a discharged caravan battery optimally while driving, disconnect the 12 V operation of the refrigerator and turn off as much equipment as possible that uses 12 V.

Checklist

- · Turn off the motor.
- Switch on the 12 V master switch.
- Turn off all equipment that uses 12 V.
- Start the motor.



The voltage of the caravan battery must rise if

- the engine speed is above the idling speed,
- the vehicle's battery is not completely discharged.

If this does not happen after using the dynamo to charge the battery, check the following:

- Is the fuse in the supply line to the vehicle's battery functioning properly near the vehicle's battery?
- Have the poles of the caravan battery been attached properly to the battery charger?
- Is the fuse in the supply line to the "D+" signal functioning properly near the vehicle's battery?
- Is the "D+" signal sitting close to the battery charger?
 There must be a voltage of 12 V here when the motor is running.
- Is the connection between the battery charger and the onboard control panel functioning properly?

Operation by means of a 12 V caravan battery

All of the equipment is automatically supplied from the caravan battery if the mobile home is standing still without a 230 V mains supply and with its engine turned off. The 12 V master switch must be switched on.



The caravan battery should only be allowed to discharge to a voltage of 11 V. At this point, you should ensure that it is recharged from the dynamo or from public supply.

6.5 Caravan battery

Location

 Under the driver's seat, in the seating arrangement or in a separate compartment that is accessible from the outside, depending on the floor plan.

Features

- The battery does not require maintenance. It does not need to be refilled with water.
- The battery is closed off and cannot leak.
- The battery is cycle-proof, making it especially suitable for the supply of the board network. Several discharging/ charging operations are possible.



Use only the same kind of batteries when exchanging the battery (same capacity and voltage, cycle-proof, maintenance-free and leakproof).



Changing the battery

- · Please do not smoke when changing the battery.
- Disconnect the connection to the 230 V network.
- First, disconnect the minus (-) connector.
- Then disconnect the plus (+) connector.
- · Remove the battery.
- Insert the new battery.
- Use the reverse sequence to connect the new battery.



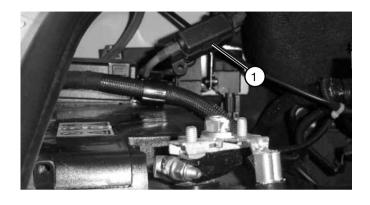
The solution of electrolytes contained in the battery is poisonous and corrosive! Protect your eyes and face whenever handling the battery.



If your skin or eyes come into contact with this solution, wash immediately with lots of clear water.



Keep open flames or equipment that gives off sparks away from the battery. Danger! Explosive!



6.6 Fuse protection of the electric system

Starter battery

The main fuse protection is carried out by a 40 A safety fuse (1). The fuse is located under the hood next to the starter battery.





Caravan battery

The main fuse protection is carried out by a 30 A safety fuse (1). The fuse is located right next to the battery.

12 V circuits

These are protected by overload releases on the HOBBY control panel.

Information on fuses

15 A: refrigerator

10 A: light

10 A: pump, boiler, heating, TV

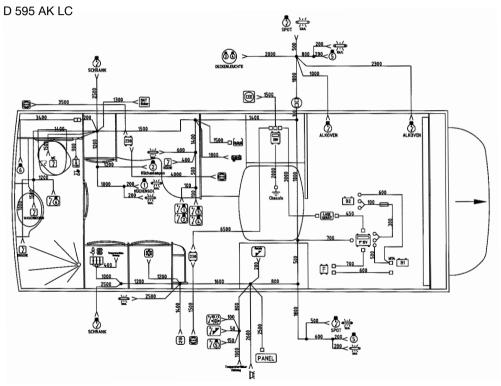
The following applies if one of the devices breaks down:

- Check the fuse on the corresponding electric circuit.
- Press the operating button.
- If the fuse goes off again, please speak to your authorised Hobby dealer.



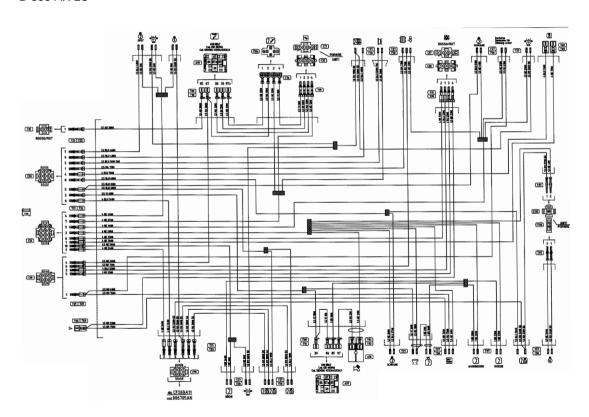
6.7 Interior circuit diagrams

Cabled Floor 230 V

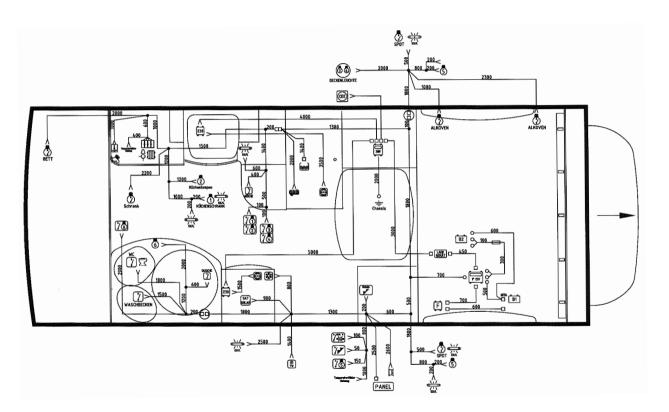


Cabled Floor 12 V

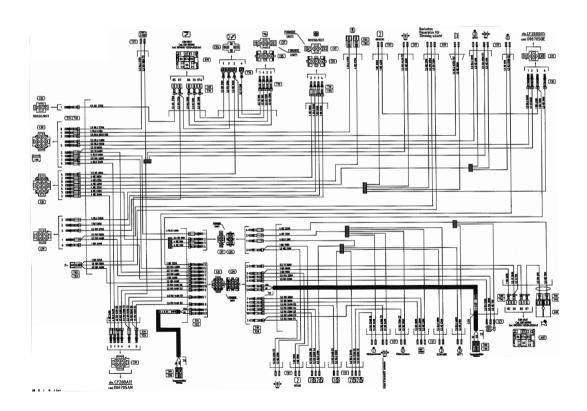
D 595 AK LC



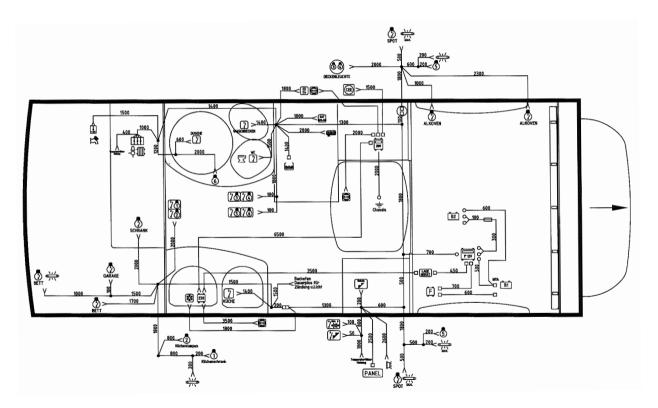
D 615 AK KLC



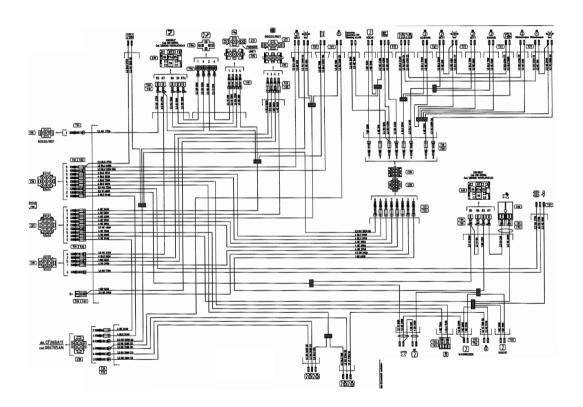
D 615 AK KLC



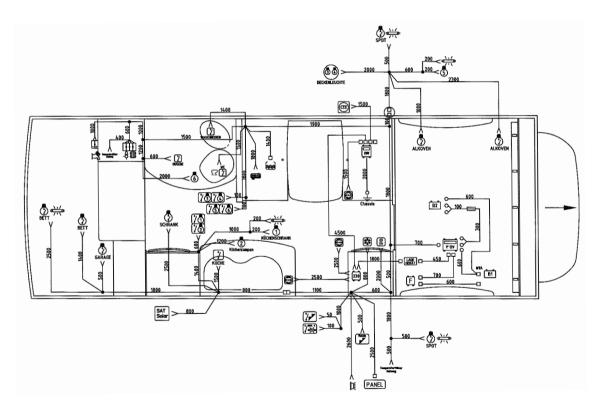
D 615 AK GFLC



D 615 AK GFLC

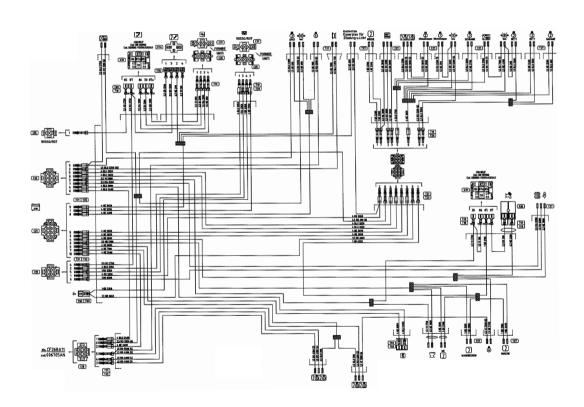


D 670 AK GFM

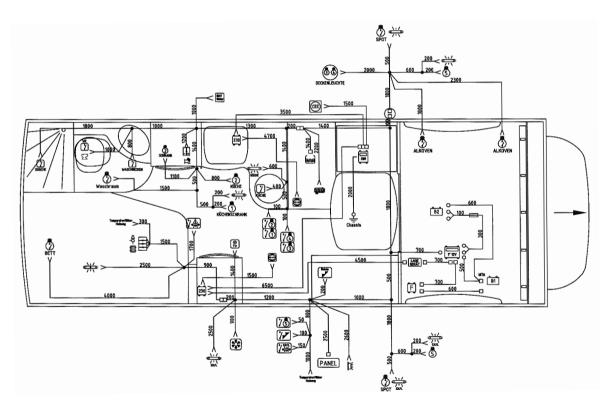


Cabled Floor 12 V

D 670 AK GFM

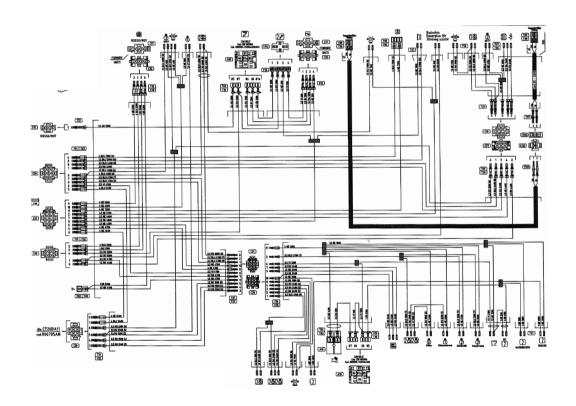


D 670 AK FLC

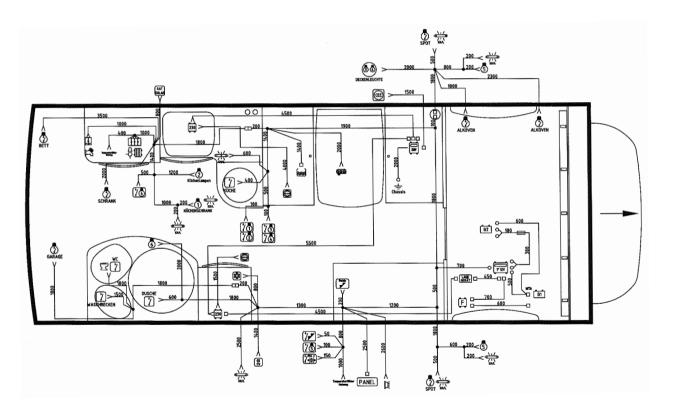


Cabled Floor 12 V

D 670 AK FLC

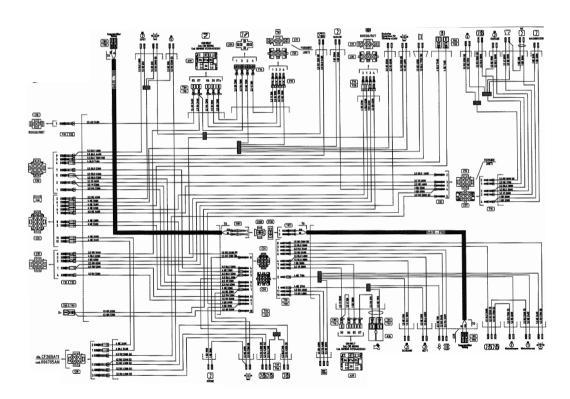


D 670 AK KMC



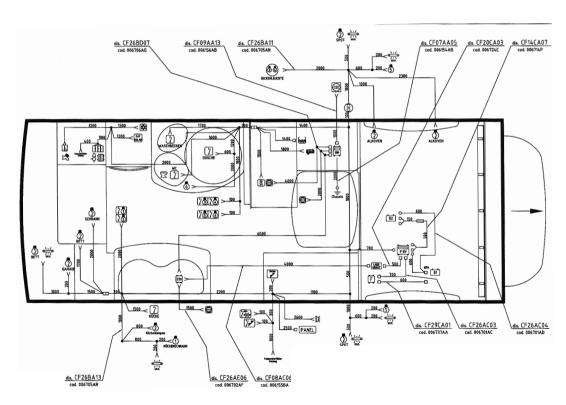
Cabled Floor 12 V

D 670 AK KMC



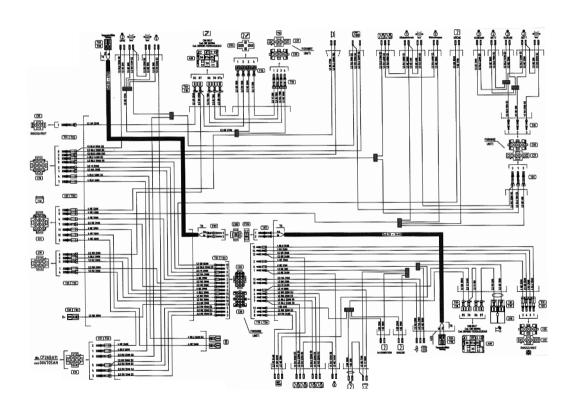


D 670 AK GFLC



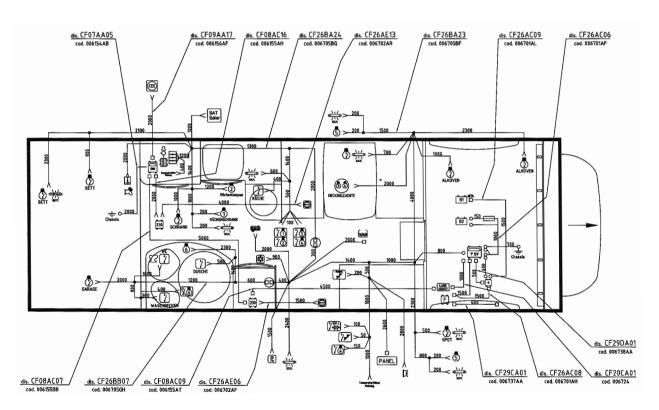
Cabled Floor 12 V

D 670 AK GFLC

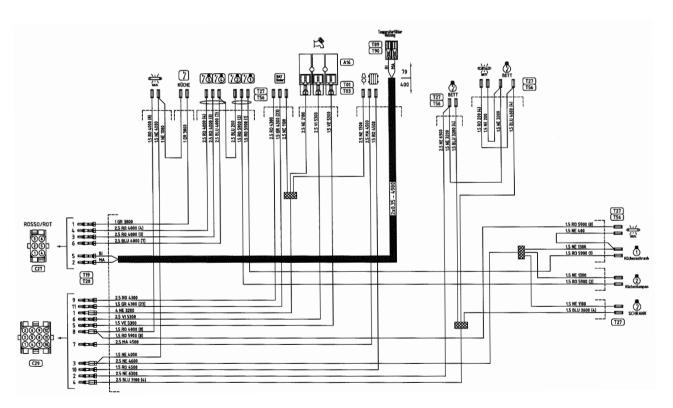




D 725 AK GFMC

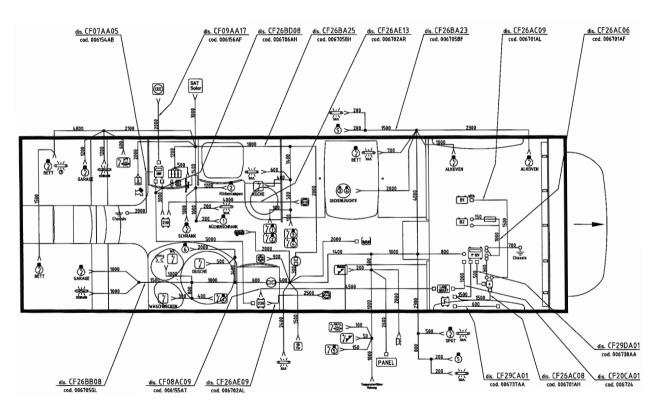


D 725 AK GFMC



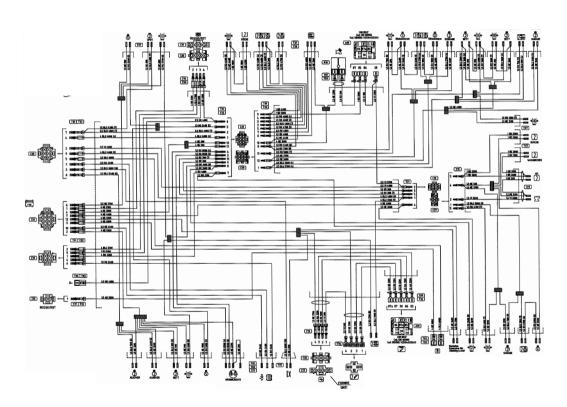


D 770 AK GEMC

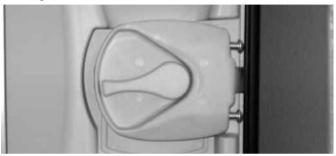


Cabled Floor 12 V

D 770 AK GEMC



Chapter 7: Interior of the Caravan



7.1 Opening and closing doors and flaps

Entrance door

Opening

• Turn the bolt down.



This allows you to open a door from the inside that has been locked on the outside.



Closing

• Pull the door shut until you hear it lock.

Locking

• Turn the bolt up.



This door is your escape route in an emergency. Never barricade it from the outside!







Cupboard flaps with a handle

Opening

• Pull on the handle until the flap is open.

Closing

• Press on the handle of the flap until you hear it close.



Close all flaps properly before driving. This avoids them opening by accident while driving and objects falling out.



7.2 Windows

Knockout windows with locking hooks

Opening

- Press the knob of the bolts and turn them to a vertical position.
- Press the window outwards until you hear a click. The window will automatically remain in this position. The width of the opening is adjustable in several stages.

Closing

- Raise the window slightly so that the hook unlocks.
- Close the window.
- Press the knob of the bolts and turn them to a horizontal position.



Combined sunshade and insect screen

The sunshade and insect screen are integrated in the window frame and can be combined. The combined shade can be adjusted in several positions.

Combining shades

- Pull the connection flap of the insect screen upwards.
- Latch the connection flap to the catch on the one-handed operation of the sunshade.

Adjusting the sunshade

Press the one-handed operation of the sunshade together at the jaw and hold it.



Opening the insect screen

- Unlatch the connection flap of the insect screen from the catch and separate it from the one-handed operation.
- Use the connection flap to draw the insect screen down and do not let it snap back.



7.3 Caravan skylight

Safety instructions



- Never open the skylight in strong winds/rain/hail, etc. or if the temperature outside is below -20°C!
- Remove snow, ice or excessive dirt before opening. Ensure there is sufficient room before opening the skylight under trees, in garages, etc.
- Do not stand on the skylight.
- Close and bolt the skylight before driving. Open the insect screen and pleated material (resting position).
- If the sunlight is very strong, pull the sunshade only 3/4 closed, otherwise there is a danger of heat build-up.



The vents for ventilation must always remain open! Never shut or cover up these vents!

Opening the skylight

Before opening the skylight, check that the outside area above the skylight is clear. The skylight can be opened to an angle of 60°. To eject the crank, push the ejector in the direction of the arrow. Turn the crank to its user position. By turning the crank clockwise, you can now open the skylight to the desired position. If there is an obstacle, the crank's overload protection immediately kicks in; you will hear a slight "grating" sound in the crank. Close the skylight if it is raining or there is a storm.

Closing the skylight

Turn the crank anti-clockwise until the skylight is closed. Then turn the crank and press it into its resting position. If there is an obstacle, the crank's overload protection immediately kicks in; you will hear a slight "grating" sound in the crank. In this case, give the crank one more turn until it can be pressed into its resting position.



Before driving, ensure that the skylight is securely bolted.



7.4 Sunroof with Remi-Star combination blind

Operating instructions

Important information

- Never open the skylight in strong wind, rain, hail, etc. and if the outside temperature is below 20° C!
- Remove any snow, ice or excessive dirt before opening. Ensure there is sufficient room before opening the skylight unter trees, in garages or similar places.
- Never stand on the skylight.

While driving

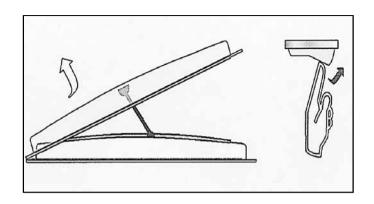
Close the skylight completely before driving and lock it. Open the insect screen and the folding material (home position).

Opening - closing - locking the skylight



Before you open the skylight, check that it is unobstructed. Keep parts of your body and other objects away from the opening.

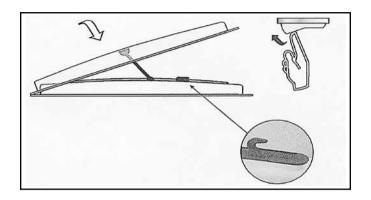
Attention! Can cause injury!



Opening

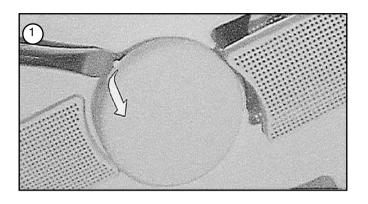
• Press the key until the skylight reaches the desired position. When it reaches its final position it will automatically turn off.





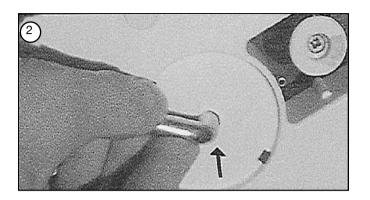
Closing and locking

Press the key until the skylight reaches the desired position.
 To lock, press the key when the skylight is closed until the motor automatically turns itself off.

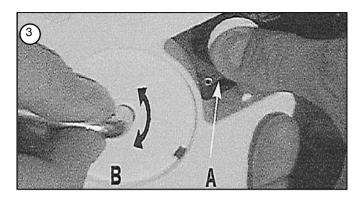


Emergency operation during power failure

- Remove any objects and body parts from the opening.
- Loosen round cover (1) and lift out the ventilation screen.



Insert emergency crank (2) as far as possible and hold tightly.



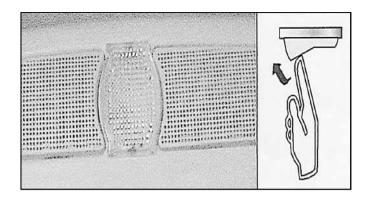
- Use the push-button to unlatch the mechanism (3/A).
- Hold the push-button and, at the same time, turn the crank (3/B) to move the skylight.

After reaching the desired position of the skylight, pull the button and, at the same time, lightly turn the crank back and forth until the mechanism locks.



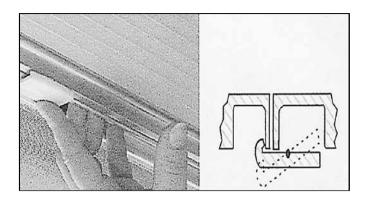
Attention! Skylight can snap shut suddenly while being unlocked (3/A). Always hold the crank firmly as long as the gears are unlocked.





Interior lighting

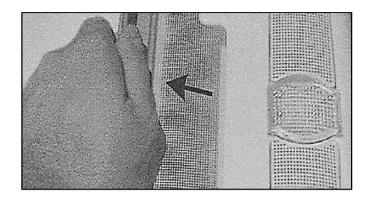
• Press the toggle switch on/off for interior lighting.



Darkening the interior

 Use the clasp to pull the pleated material to any desired position or push it against the clasp of the insect screen. (The latch will then lock automatically.)



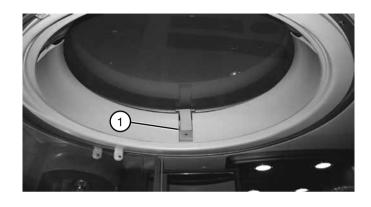


Closing / opening the insect screen

Push the clasp of the insect screen against the clasp of the pleated material until the latch locks into place. To open, press the clasps together while pressing on the latch. Now slide back the clasp of the insect screen.



Note! Never allow the insect screen to snap back by itself. This can cause damage.



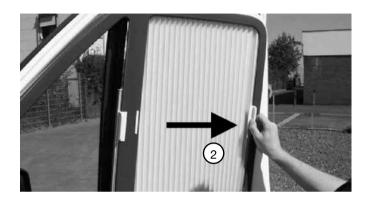
7.5 Washroom skylight (depending on floor plan)

Opening the skylight

Unlatch the release (1) and secure the skylight.

Closing the skylight

Carry out the above steps in reverse.



7.6 Dimming system for driver's cabin

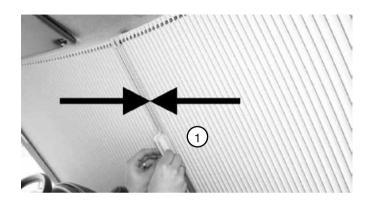
The dimming shades may only be drawn when the vehicle is standing and the motor has been turned off. Before starting your drive, you must fold up the entire system and lock it.

Open the dimming system whenever you are not using your mobile home, as otherwise it will be permanently damaged by the effects of heat and UV rays.



The dimming system may never be used as a sunshade or closed while driving.





Front system (1)

Press the clasp together in the middle. The magnetic lock will automatically lock.

Side system (2)

Draw the clasp across to the rabbet. The magnetic lock will automatically lock.

Skylight in driver's cabin

• Draw the clasp across to the rabbet.









7.7 Seating chests and setting up beds

The seating arrangements can be rearranged as comfortable beds for sleeping.

Lift-off table construction

Rearranging

- Remove all cushions.
- Pull the latch on the lift-off table up and loosen it.

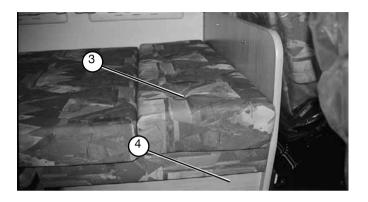


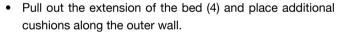
- Pull the latch on the lift-off table towards the interior of the caravan and lower the table.
- · Attach the supports to the additional wooden panel and hang it on the wall.



When not in use, the additional wooden panel is kept in the clothes cupboard.





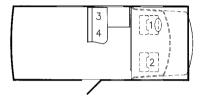


- Place the cushions from the seating arrangement on top and pull them together towards the middle of the table.
- Fill the empty spaces with the backrests. To do this, turn the backrests (3) around and place them with the wider side towards the front or back wall.

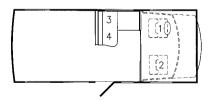


7.8 Overview of the seating arrangements

D595 AK LC Toskana 2007



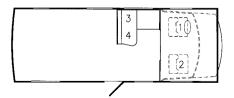
D615 AK GFLC Toskana 2007



D615 AK KLC Toskana 2007

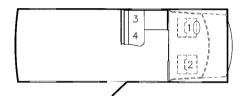


D670 AK FLC Toskana 2007

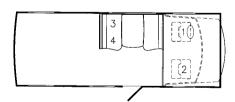




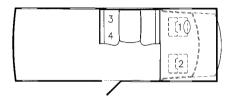
D670 AK GFLC Toskana 2007



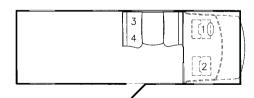
D670 AK GFM Toskana 2007



D670 AK KMC Toskana 2007

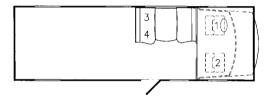


D725 AK GFMC Sphinx 2007

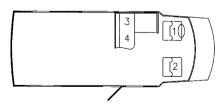


Hobby

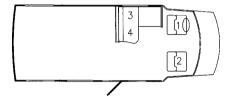
D770 AK GEMC Sphinx 2007



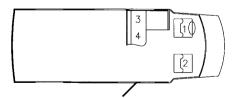
D650 FLC Toskana Exclusive 2007



D650 GFLC Toskana Exclusive 2007

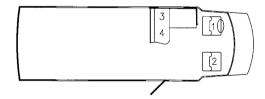


D690 GELC Toskana Exclusive 2007

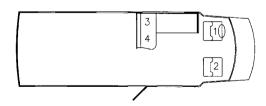




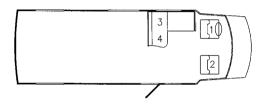
D750 ELC Toskana Exclusive 2007



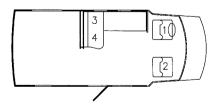
D750 FLC Toskana Exclusive 2007



D750 GELC Toskana Exclusive 2007

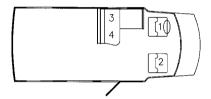


D600 FL Toskana 2007

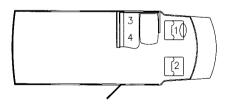


Hobby

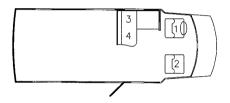
D600 GFLC Toskana 2007



D650 ES Toskana 2007



D650 FLC Toskana 2007





7.9 Overview of day and night positions

D 595 AK LC Toskana



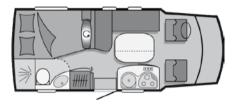
Day position

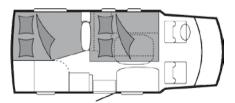


Night position

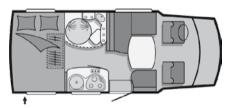


D 600 FL Toskana

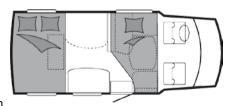




D 600 GFLC Toskana



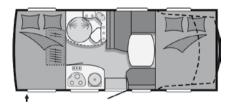
Day position



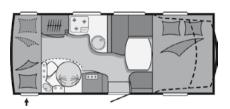
Night position



D 615 AK GFLC Toskana







Day position

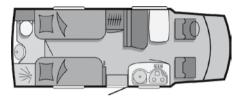


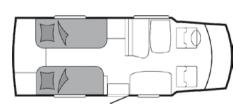
Night position



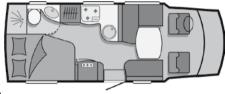


D 650 ES Toskana

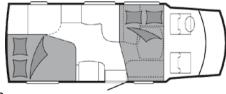




D 650 FLC Toskana



Day position



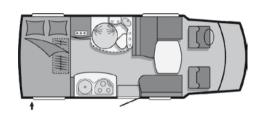
Night position

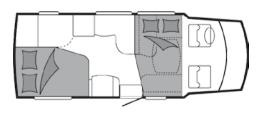




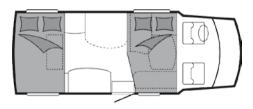
Day position







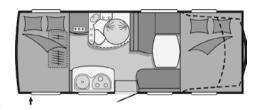
Night position



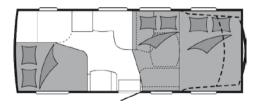
D 670 AK FLC Toskana



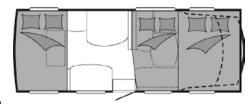
D 670 AK GFLC Toskana



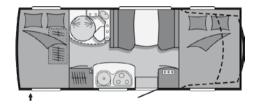
Day position

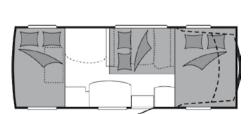


Night position

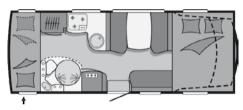


D 670 AK GFM Toskana

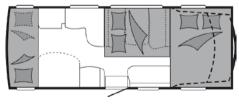




D 670 AK KMC Toskana

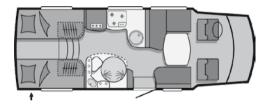


Day position

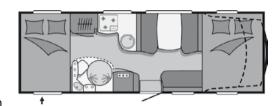


Night position

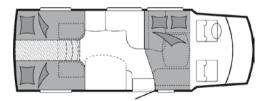
D 690 GELC Tokana Exclusive



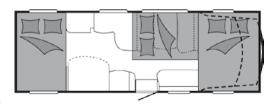
D 725 AK GFMC Sphinx



Day position

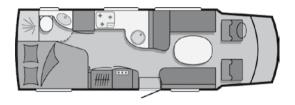


Night position

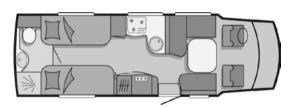




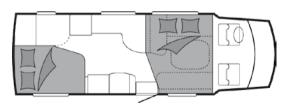
D 750 FLC Toskana Exclusive



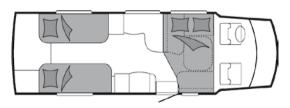
D 750 ELC Toskana Exclusive



Day position

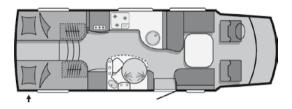


Night position

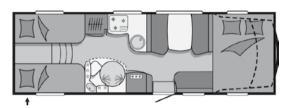




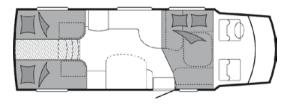
D 750 GELC Toskana Exclusive



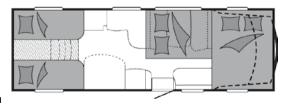
D 770 AK GEMC Sphinx



Day position



Night position







7.10 Construction of the seats

Cushion fastenings

The seat cushions are held in place by means of an anti-slip mat.



Ensure that the seat cushions and backrests are fastened securely and correctly.

Adjusting the height of the headrests

 Grasp the cushion on the headrest and push it to the desired position.

Hobby

7.11 Seatbelts in the caravan

The seats in the middle seating arrangement facing the direction of traffic have been fitted with seatbelts.

Operation

Locks are used to adjust the height of the seatbelts.

Buckling the seatbelt

Do not twist the seatbelt.

- If you use a model with a retractable restraint system, you
 must first press on the top cover to unlock it and then
 extend it in the direction you are driving.
- Grasp the tongue and insert it in the lock of the seatbelt until you hear it snap shut.
- Guide the upper part of the seatbelt over your shoulder and diagonally across your chest.
- The lower part of the seatbelt fits across your hips.

Unbuckling the seatbelt

 Press the button on the lock of the seatbelt to unlock the tongue.

7.12 Seats in the driver's cabin



Please refer to the operating instructions of the basic vehicle for information on operating these.







7.13 Media unit (TV/Bar, revolving)

The media unit can be revolved and holds the sockets for a 15" flat-screen television (not included in scope of delivery) and LED lighting.

7.13.1 Television holder for flat-screen monitor





Lock the media unit or TV holder before driving.



7.14 Alcoves

Parents are responsible for ensuring that small children do not fall out of the upper berths. If small children are in upper berths, the enclosed safety nets must be pulled up and fitted in the fixtures to protect children from falling out.



If you have put small children in the upper berths, secure them against the danger of falling out!



Hobby

Chapter 8: Water

8.1 Water supply

Warm water supply

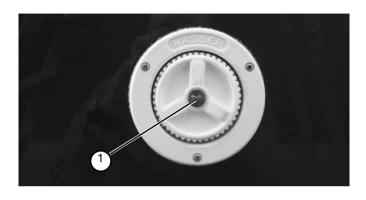
The kitchen and toilet are supplied with fresh water by means of a water pump. The pump is located close to the heating system.

Putting the submerged pump into operation

- Switch on the 12V master switch.
- Switch on the water supply switch, located on the on-board control panel.



Always ensure that the fresh water tank is filled before switching on the pump. The pump can be destroyed if the tank is dry!



Fresh water tank

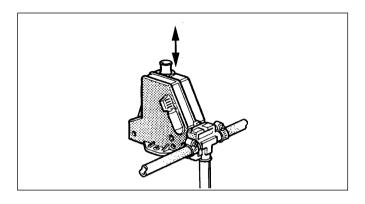
To fill with water

- Close all outlets and valves.
- Unlock and open filler neck (1).
- Fill tank with drinking water, preferably using a hose (not included in scope of delivery).

To draw water

- Switch on 12V master switch.
- Turn switches for water pump, heating and boiler to "ON".
- Turn on "hot" or "cold" water taps.







During the cold season or if the main switch is turned on while the heating system is off, the TRUMA safety valve opens, allowing the boiler to empty itself.



Emptying the fresh water tank

Open the lid of the tank with the tools provided.



The ball valve to let fresh water run off is located in the seating arrangement next to the fresh water tank.

The following applies for obtaining good water from the tank:

- Only fill the tank with drinking water. When filling, pay attention to the sticker with the "Fresh Water" symbol.
- Always boil water before using it.
- Lock the tank.
- Empty the water tank after every journey and before letting your mobile home stand for a longer period of time.
- Clean the water tank thoroughly with water.



Water in closed containers, such as a tank, quickly becomes full of bacteria. If you enjoy drinking plain water, you should add a disinfectant or store mineral water.



Never allow antifreezer or other chemicals to get into the water circuit. This can be poisonous! When operating in winter, ensure that the fresh water tank is sufficiently heated.

Sewage tank

Emptying the sewage tank

Remove the hose for emptying the tank from the bottom of your mobile home.

- Hang the end of the hose in a collecting basin or waste column.
- Carefully open the tap for emptying the tank, to ensure that sewage does not splash about.
- After the sewage has completely run off, close the tap.
- Carefully press the hose in its carrier to ensure that it is not accidentally released.

Emptying the sewage tank

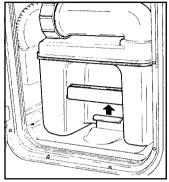


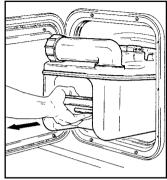
- Use the support located underneath the vehicle to empty the sewage tank.
- Collect the sewage in a collecting basin.



Only empty your sewage tank in special places for sewage disposal, but never in open spaces! Generally, sewage stations are found in motorway service areas, campsites or petrol stations.







8.2 Flushing toilet

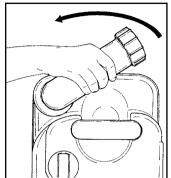
Preparing the toilet

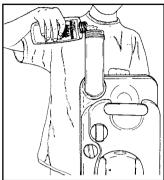
· Open the Thetford door and pull the holding bar up to remove the excrement tank.



The excrement tank can only be removed when the bolt is closed.

- Pull out the tank as far as possible, keeping it level.
- Slightly tip the excrement tank and then pull it out completely.
- Place it in an upright vertical position.
- Turn the emptying support to an upward position.







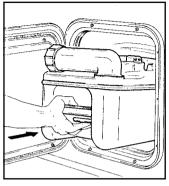
You may be able to avoid the use of sanitary liquids by installing an activated carbon filter system (sold as an accessory)!

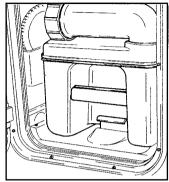


Use sanitary liquids very sparingly. An overdose is no guarantee of preventing odours!

- Fill the excrement tank with the correct amount of sanitary liquid.
- Then add enough water to completely cover the bottom of the excrement tank.
- Return the emptying support to its original position.









Never fill sanitary liquid directly into the toilet bowl.

- Push the excrement tank back into position.
- Ensure that the holding bar secures the excrement tank.
- Close the service flap.

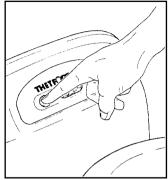




Using the toilet

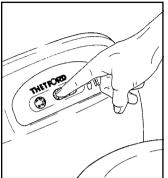
- Turn the toilet bowl to a comfortable position.
- Use the toilet.
- Fill the toilet bowl with water. Press the flush button. Flushing will continue for as long as you press the button.

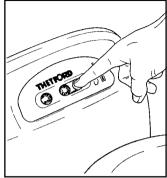




C200 S Cassette

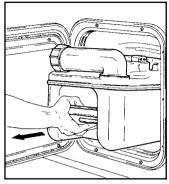
- Open the bolt by turning the bolt lever counter-clockwise.
- Flush the toilet by pressing the flush button.
- After flushing, close the bolt.

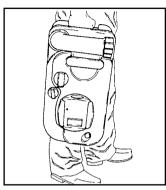




C 200 E Cassette (accessory)

- Open the bolt by pressing the left side of the bolt button.
- Flush the toilet by pressing the flush button.
- After flushing, close the bolt by pressing the right side of the bolt button.





Emptying the cassette

Open the Thetford door and pull the holding bar up to remove the excrement tank.



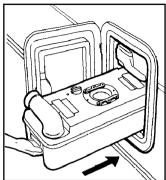
The excrement tank can only be removed when the bolt is closed.

- Pull out the tank as far as possible, keeping it level.
- Slightly tip the tank and then pull it out completely.



Empty the excrement tank in special places for sanitary disposal, but never in open spaces!





- Take the excrement tank to a sanitary disposal place, making sure to hold the emptying support in an upright position.
- Remove the cap on the emptying support.
- · Place the emptying support on the excrement tank in a downward position.
- · Press the aerating button with your thumb. The excrement tank will empty itself.
- Return the excrement tank to its storage position, pushing it in until the holding bar locks it into place.
- Lock the service flap.

The following applies for an environmentally-friendly use of the toilet:

- Fill the tank only with toilet solutions that have been approved and do not pollute the environment!
- Empty the toilet only into the appropriate outlets or at service stations!
- Never empty sewage into a drain! Drain channels generally bypass clarification plants and end directly in a river.

8.3 Hot water supply

Water heater

Your mobile home is equipped with a liquid gas heating system with an integrated boiler. The boiler holds 14 liters of water. The operating device for the water heater is integrated in the panel for the heating system.

The following applies for the water heater:

- Empty the water if there is danger of frost!
- If the water heater has been unused for a longer period of time, rinse it out (open the mixing tap)!



Only allow experts to carry out repairs!



Any changes to the boiler lead to breakdowns and the type approval for the device will be terminated!

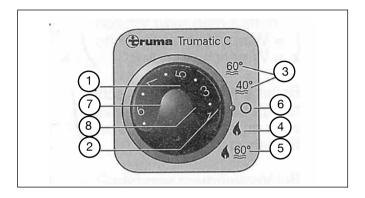
Filling the water heater (initial operation or after emptying)

- Turn on the water pump by turning on the switch for the electric circuit for the water pump, located on the display and operating panel.
- Open all of the hot water taps.

Only shut the taps when the boiler is full, the displaced air has escaped and water is flowing from the hot water taps.

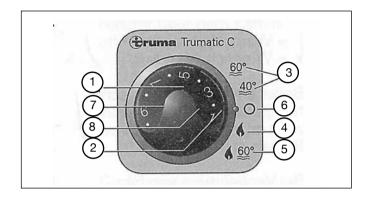


For further information, please refer to the TRUMA operating manual.



Operating in summer - hot water only

- Turn the rotary switch (6) to summer operation (3), 40°C or 60°C.
- After the set water temperature (40°C or 60°C) has been reached, the burner turns itself off and the yellow control light (7) turns off.

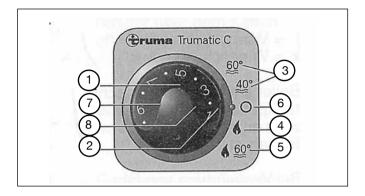


Operating in winter - heating without a demand for hot water

- Turn the rotary switch (1) to the desired setting on the thermostat (1-9). After being switched on, the green control light (2) turns on and shows the room temperature that has been set.
- Turn the rotary switch to the operating position (4).

The device will automatically select the required level of performance depending on the difference in temperature between the set temperature and the temperature at present in the room. After reaching the temperature set on the operating device, the burner shifts down to the lowest level and heats the water to 60° C. the yellow control light (7) shows the heating phase, turning off when the temperature has been reached.





Operating in winter - heating with a demand for hot water

- Turn the rotary switch (1) to the desired setting on the thermostat (1-9). After being switched on, the green control light (2) turns on and shows the room temperature that has been set.
- Turn the rotary switch to the operating position (5).

The device will automatically select the required level of performance depending on the difference in temperature between the set temperature and the temperature at present in the room. After reaching the temperature set on the operating device, the heating turns itself off (irrespective of the water temperature).

The water is automatically heated if the boiler has been filled.

Hobby

The water temperature then depends on the heating capacity that has been set and the time required to heat the room until the set temperature has been reached.

In this operating position, the yellow control light (6) only lights up if the water temperature drops below 5° C.



Without any limitation whatsoever, heating is always possible with or without water.

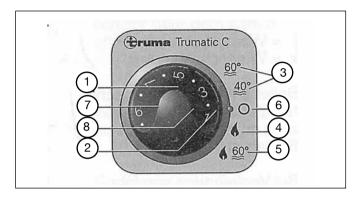
Turning off "Gas Operation"

• Use the rotary switch (6) to turn off the heating.



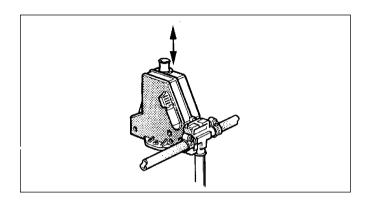
The water must be emptied if there is danger of frost!

If the device has not been used for a longer period of time, close the guick-action stop valve in the gas supply line and the gas bottle.



Malfunction

- In case of malfunction, the red control light (8) lights up.
- For possible causes, please refer to the TRUMA Operating Manual for instructions on finding defects.
- To unlock, turn off and then on again.



Emptying the boiler

- Turn off the water pump by turning off the switch for the electric circuit for the water pump, located on the display and operating panel.
- Open all the hot water taps.
- Press the control button (6) on the electrical safety/drain valve. The contents of the boiler are now directly emptied outside.



If the heating is not on, the safety/drain valve can only be closed when the temperature is above 8° C.



If the temperature of the safety/drain valve is lower than 2° C, the contents of the boiler can drain off when the device is turned off.



Chapter 9: Gas

9.1 General safety rules for the use of **LPG** fittings

Checking the gas fittings

- Before initial operation, have the LPG fittings checked by an expert.
- The gas fittings must be checked every 2 years by an LPG expert. This must be confirmed on the certificate (conform with Form G 607 from the German Association of Gas and Water Experts).
- The regulator and waste gas pipes must also be checked.
- We recommend that you replace the safety regulator at least every 6 years.
- · The connecting hose should also be checked regularly for damage. Replace it immediately if you find tears, porous spots or similar damage.
- The operator is responsible for having checks carried out.



If you suspect that gas is leaking, take the following measures immediately:

- Shut the stop valve on the gas bottle.
- Ignition sources such as open fire or smoking are strictly forbidden.



- · Air the rooms.
- Clear the danger zone.
- Inform your surroundings (groundsman) and, if necessarv. the fire department.

The gas fittings may only be taken into operation again after they have been checked by an expert.

Built-in objects and changes

- Only an expert may build in objects and make any changes to the gas fittings.
- · Devices with different connecting screws may not be operated.

Storing objects

- Gas bottles must always stand upright.
- Cupboards for gas bottles must be sealed up from the living quarters.
- · Cupboards for gas bottles must have a vent of at least 100 cm² in or directly above the floor.



Regulators and valves

- Pressure governors must have a fixed pressure of 30 mbar. The regulations in EN 12864, Appendix D, apply accordingly. The pressure governors must have a minimum flow rate of 1.2hx/h.
- Carefully attach the high-pressure hose on the bottle by hand (note: left-handed thread). Do not use spanners, pincers or similar tools.
- If the temperature is below 5 °C, use the de-frosting facility (ice-ex) for regulators.



The operating pressure for gas is 30 mbar.

Operating the cooker

- When operating the cooker, the skylight or the window must be open.
- The operating levers of gas devices that must be pressed to ignite when turned on, must spring back by themselves after being pressed.



Cookers or other devices that use air from indoors for combustion may never be used to heat the vehicle. If this is ignored it could cause mortal danger, due to the lack of oxygen and the possible development of odorless carbon monoxide.

Waste gas

- The waste gas pipe must be attached firmly and impenetrably to the heating and the chimney. It may not be damaged in anv wav.
- Waste gas must be passed out without obstruction and fresh air must be passed in without obstruction. For this reason, there may be no snow walls or skirts directly next to the vehicle. The intake openings on the underbody of the vehicle must be kept clear and clean.

Before initial operation

- Keep all vents clear.
- Remove any snow from chimney.
- Clear aspirating holes for combustion air underneath the vehicle of dirt and/or snow. Otherwise, the waste air might have a CO content that is higher than allowed.
- The safety vents must not be closed.
- Never use portable cookers or heating devices, except electric heating devices, but not radiant heaters, because they can cause a fire or suffocation.



Read the manufacturers' operating manuals thoroughly and carefully!



9.2 Gas supply

Your mobile home has been equipped with a propane system (gas bottle not included in scope of delivery). The following equipment runs on this system:

- cooker.
- refrigerator,
- water heater.
- oven.
- and possibly, special equipment.

Gas bottle container

The gas bottle container holds 2 x 11 kg propane cylinders. These are connected to the gas pressure governor mounted







on the wall by means of high-pressure hoses with integrated security against breaking. It is fitted out with a gas flow monitor and an integrated test connection. Therefore, heating may explicitly be operated while driving. The cyclinders are secured using two independent lashes.

The following applies for the gas bottle box:

- Always control the fastenings before driving.
- Securely lash any loose straps.
- The maximum pressure in the hose of the safety regulator may not be more than 30 mbar.



The gas bottle room may not be used as additional storage room. Danger! Fire!





Stop valves and valves

These valves are use to interrupt the flow of gas to the corresponding device. Each of the valves are identified by a sticker.

Location of the gas stop valves

Depending on the floor plan, all of the important gas stop valves are located in the cupboard under the sink or above the cutlery drawer.



The following applies for stop valves and valves:

All of the taps on gas devices must be shut while driving.
 The only exception is for the taps for heating devices that are to be used while driving.



Over the years, vibrations can cause slight leakages to appear. If you suspect that there are leakages, have your dealer or an authorised workshop for gas facilities check your system.



Leak tests may never be carried out near an open flame.



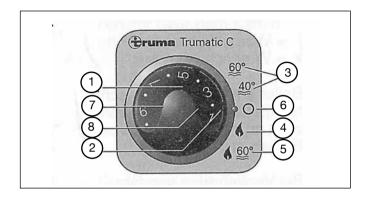
9.3 Heating

Location of the operating device

In the kitchen or by the middle seating arrangement, depending on the model.

To operate

- Remove the chimney cap (not in scope of delivery).
- Open the bottle valve and the quick-action stop valve in the gas pipe.
- Use the rotary switch to adjust the room temperature. The equipment is now operating. The green control light "Operation" under the rotary switch is shining.

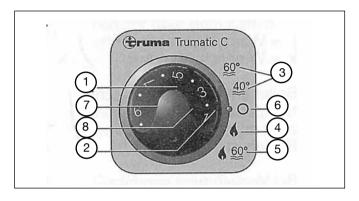


The device will automatically select the required level of performance for the burner, depending on the difference in temperature between the set temperature and the temperature at present in the room.



The LPG heating system in your mobile home has been designed to permit operation while driving. The requirements of the EU Guideline 2001/56/EG for heating devices have been fulfilled so that, in case of an accident, LPG cannot escape involuntarily.





Turning off "Gas operation"

Use the rotary switch (6) to turn off the heating.



The water must be drained off if there is danger of frost!

If you do not plan on using the equipment for a longer period of time, close the quick-action stop valve in the gas pipe and the gas bottle.

Malfunction

- In case of malfunction, the red control light (8) lights up.
- For possible causes, please refer to the TRUMA Operating Manual for instructions on finding defects.
- To unlock, turn off and then on again.



For further information, please refer to the TRUMA operating manual.



9.4 Refrigerator

Modes of operation

Three modes of operation are possible for the refrigerator.

- 12 V operation: electricity is supplied by the mobile home's battery.
- 230 V operation: electricity is supplied from an external source.
- LPG: supplied by the gas bottles in the mobile home.

Refrigerators manufactured by Dometic or Thetford can be used.



Before initial operation, please refer to the manufacturer's operating instructions.

12 V operation

12 V operation should only be used while driving, when the motor is running. When resting or if you have stopped for a longer period of time, turn off the 12 V operation; otherwise, the mobile home's battery will quickly discharge.



Do not run the refrigerator on gas while driving. Danger of explosion!



9.5 Gas cooker

The kitchen in the mobile home has been equipped with a gas cooker with 3 burners.

Before initial operation

• Open the bottle valve and the guick-action stop valve in the gas pipe.





Operation

- Open the tinted glass covering (1).
- Turn the rotary switch (2) of the burner you wish to use to the ignition position (large flame) and press.
- Ignite the burner with a gas lighter or match or cigarette lighter.
- Continue to press the rotary switch for a further 5-10 seconds to ensure that the automatic flame guard takes effect.
- Release rotary switch (2) and turn to the desired setting (large or small flame).
- If ignition was unsuccessful, repeat the procedure.

- To turn off the gas flame, turn the rotary switch back to the "0" settina.
- Close the main cock on the gas cooker.



Use cooking gloves or potholders when handling hot pots, pans and similar objects. You may be burned!



After cooking, leave the glass covering open until the burner no longer emits heat. Otherwise, the glass plate could burst.



Never store easily inflammable objects such as dishtowels, serviettes, etc., near the cooker. Danger of fire!





9.6 Oven



Please refer to the manufacturer's operating instructions.

Chapter 10: Accessories

Only the most important accessories are described in this chapter.

Please note the manufacturers' detailed operating instructions. installation instructions and circuit diagrams for the accessories.

10.1 Towbar coupling

The following applies for the towbar coupling:

- If a towbar coupling has been subsequently mounted, it must be entered in the vehicle's documents by the Technical Surveyance Association (TÜV). The necessary documents are enclosed with the towbar coupling.
- Note the permitted load for the rear axle.
- Note the permitted braked trailing load (see Technical Data). (No extra load possible.)
- Permitted drawbar load: 75 kg

Entry in the vehicle's documents

- Have your HOBBY dealer mount external constructions. He will also handle all the formalities for you.
- If this is not the case, drive your mobil home together with the registration documents and the necessary expertise for the external construction to the TÜV, where the external

- construction will be inspected and a corresponding expertise issued for registration in the vehicle's documents.
- Present the expertise to the Driver and Vehicle Licensing Agency, where the amendments will be entered in the vehicle documents.



In addition, note the manufacturer's operating instructions.



Chapter 11: Maintenance and Care

11.1 Maintenance

Maintenance intervals

There are stipulated maintenance intervals for the mobile home and its equipment.



Also note the maintenance intervals for the basic Fiat vehicle.

The following applies for maintenance intervals:

- Have the first maintenance carried out by a HOBBY dealer
 12 months after the vehicle was first registered.
- All further maintenance should be carried out once a year by a HOBBY dealer.
- The maintenance of the basic vehicle as well as all built-in equipment should be carried out at the intervals given in each operating manual.



The gas fittings must be checked every 2 years by an expert for liquid gas and confirmed on the certificate in accordance with DGVW G 607.



The operator of the vehicle is responsible for having maintenance carried out on schedule.



Replace the safety regulator for gas at least every 6 years!



For safety reasons, spare parts for equipment must conform with the manufacturer's instructions and must be installed by him or a duly authorised representative.

11.2 Airing

For a comfortable climate inside the caravan, there must be sufficient ventilation. This also avoids corrosive damage due to condensation.

Condensation is caused by

- insufficient volume inside the caravan
- breathing and perspiration of the passengers
- bringing in damp clothing
- operating a gas cooker



Ensure that there is a sufficient exchange of air to avoid damages due to the build-up of condensation!



11.3 Care

Cleaning the exterior

The vehicle should not be washed more often than necessa-



Wash the vehicle only in places provided for this purpose.



Using cleaning materials sparingly. Aggressive cleansers, such as wheel rim cleaners, damage the environment.

The following applies when cleaning the exterior:

- Rinse the vehicle with a weak jet of water.
- Wash the vehicle with a soft sponge and a commercial shampoo solution. Rinse the sponge often.
- Then rinse with a generous amount of water.
- Dry the vehicle with a suede cloth.
- After washing the vehicle, leave it standing outside to dry off completely.



Dry the headlights and sockets thoroughly, as water collects there easily.

The following applies when waxing the surfaces:

 The varnished surfaces should be treated occasionally with wax. Note the application instructions given by the wax manufacturers. We recommend products made by VALMA, turtle, Flash or System.

The following applies when polishing the surfaces:

 In exceptional cases, use polish to refinish weathered varnished surfaces. We recommend solvent-free polishing paste.



Use polish only in special cases and as seldom as possible, because polish removes the top layer of varnish. Frequent polishing causes extreme wear.

The following applies for tar and resin stains:

 Tar and resin stains as well as other organic stains can be removed with petroleum ether or spirits.



Do not use aggressive solutions such as products containing ester or ketone.



The following applies for damages:

 Repair damages immediately to avoid further damages due to corrosion. Ask your HOBBY dealer for assistance.

Windows and doors

The following applies for their care:

- Rub the rubber joints around doors and windows lightly with talcum powder.
- Clean acrylic glass panes only with a clean, wet sponge and a soft cloth. Cleaning with a dry cloth may scratch the panes.



Do not use strong and aggressive solutions that contain softeners or solvents!



You will find talcum powder in auto accessory shops.

Cleaning the interior

The following applies for cushions, upholstery and curtains:

- Clean cushions with a soft brush or hoover.
- Have very dirty upholstery and curtains dry-cleaned. Do not wash them yourself!

 If necessary, wash them carefully using the foam from mildaction detergent.

The following applies for carpeted floors:

- Clean with a hoover or brush.
- If necessary, treat with carpet shampoo or a shampooing machine.

The following applies for furniture surfaces:

- Clean the surface of wooden furniture with a damp cloth or sponge.
- Rub dry with a dust-free cloth.
- Use mild furniture polish.



Never use strong-action cleansers or intenvise furniture polish, because this could scratch the surface!

The following applies for the toilet:

 Clean with a neutral liquid cleanser and a cloth that does not scratch.



Never use strong-action cleansers in the toilet!



The following applies for the enamel sink:

 Use common household cleansers to clean the enamel sink.

Accessories

The following applies for their care:

- Clean plastic parts (e.g. fenders, skirts) with water of up to 60° C and mild household cleansers.
- Clean greasy or oily surfaces with spirits.
- If necessary, lubricate door hinges and leveling supports.
- Clean fresh water pipes, the fresh water and sewage tanks once a year.



Do not use strong-action cleansers, because these could scratch the surface!



Remove all spray cans containing cleansing and care solutions from the vehicle after you have finished! Otherwise they may explode if the temperature exceeds 50° C!

11.4 Operating in winter

Preparations

The following applies for preparations:

- Check vehicle for damage to varnish or rust. If necessary, repair damage.
- Ensure that water cannot get into the compulsory ventilation in the floor or the heating.
- Protect the metal parts of the underbody against rust with a wax preservative.
- Use a suitable material to preserve the exterior varnished surfaces.

Operating in winter

During operation in winter, condensation is caused when using the vehicle in low temperatures. Sufficient ventilation is extremely important to ensure that the quality of the air inside the vehicle is good and to avoid damages to the vehicle caused by condensation.



The following applies for ventilation:

- When heating the vehicle, turn up the heating to the highest position and open the cupboards in the ceiling, curtains as well as blinds. This ensures optimal ventilation.
- Only turn on the heating when the circulation fan is on.
- Air all cushions in the morning; air the storage compartments and dry damp spots.



If, despite this, condensation should build up somewhere,

Frost protection

If the interior is sufficiently heated, the fresh water tank, water pipes and water heater should not freeze.

The following applies for the sewage tank:

- In very low temperatures, add antifreezer or common salt to the sewage.
- Store sewage outside the vehicle.
- Leave the drain cock of the sewage tank open.

At the end of the winter season

The following applies for the care of the vehicle:

Thoroughly wash the underbody and the motor. This removes corrosive thawing agents (salts, alkali).



Wash the vehicle only in places provided for this



Using cleaning materials sparingly. Aggressive cleansers, such as wheel rim cleaners, damage the environment.

Winterizing your vehicle

In general:

 Only leave your mobile home in a closed space if it is dry and easy to air. Otherwise, it is better to leave your mobile home in the open.

The following applies for the interior fittings:

Empty the refrigerator and clean it. Leave the refrigerator door open.



- Leave storage compartments and cupboards open to air.
- Place cushions and mattresses in such a way that they will not come into contact with condensation
- If necessary, heat the mobile home to avoid mildew due to condensation.
- Place 3 kg of common salt in a bowl to keep the interior of the vehicle dry. The salt will soak up any moisture. Change it regularly.
- Disconnect batteries; ideally, remove them and check once a month if they are still charged, otherwise charge them.
- Turn off the 12 V master switch.

The following applies for the exterior of the caravan and the basic vehicle:

- Use a suitable material to preserve exterior varnished surfaces.
- Protect the metal parts of the underbody against rust with a wax preservative.
- To care for the wheels, jack up the vehicle or move it from one spot to another every two months.
- Use a tarpaulin, leaving space between it and the vehicle to ensure sufficient airing.
- Leave the compulsory ventilation open.
- Air your mobile home thoroughly every three to four weeks.

• Check the antifreezer in the cooling circuit, refilling if necessarv.

The following applies for containers:

- Empty the fresh water tank with a pump or waste valve and clean it.
- Empty and clean the sewage tank.
- Empty and clean the WC tank.
- Completely empty the water heater by switching the fresh water pump on the on-board control centre to "off" and opening all faucets.
- Ensure that water cannot get into the compulsory ventilation in the floor or the heating.



Also note the information and operating instructions given by the manufacturers of the built-in equipment.



Chapter 12: Sanitation and Environmental Protection

12.1 The environment and traveling

Environmentally fair use

It is only natural that owners of mobile homes and caravans have a special responsibility for the environment. Always use your vehicle in an environmentally friendly way.



The following applies for environmentally fair use:

- Do not spoil the peace and cleanliness of nature.
- Dispose of sewage, excrements and wast in the proper way.
- Set an example so that mobile home and caravan drivers are not generally held to be pollutionists.



The following applies for sewage:

- Collect sewage on board only in built-in sewage tanks or, if necessary, in suitable containers!
- Never empty sewage in open spaces or down manholes!
 Generally, the public sewage system does not run through clarification plants.
- Empty your sewage tank as often as possible, even if it is not completely full (hygiene). If possible, rinse out the sewage tank with fresh water after emptying.



Only empty your sewage tank in special places for sewage disposal, but never in open spaces! Generally, sewage stations are found in motorway service areas, campsites or petrol stations.





The following applies for excrements:

Only use approved sanitary cleansing products in the excrement tank.



You may be able to avoid the use of sanitary liquids by installing an activated carbon filter system (sold as an accessory)!



Use sanitary liquids very sparingly. An overdose is no guarantee of preventing odours!

Sanitation

- Never allow the excrement tank to become too full. Empty the tank immediately as soon as the level indicator lights up.
- Never empty excrements down manholes! Generally, the public sewage system does not run through clarification plants.



Empty the excrement tank in special places for sanitary disposal, but never in open spaces!





The following applies for waste:

- Separate your waste and put appropriate materials in the recycling bins.
- Empty waste bins as often as possible in the appropriate bins or containers. This avoids unpleasant and problematic waste from building up on board.

The following applies for picnic spots:

 Always leave picnic spots clean and tidy, even if you dispose of someone else's waste.



Careful use of the environment is not only in the interest of nature, but also of mobile home and caravan drivers everywhere!

Hobby

12.2 Returning the vehicle

If you should ever have to give up your mobile home and have it recycled, the manufacturer of the basic vehicle is responsible for taking it back (status at the time of printing).

This means that your HOBBY mobile home will be taken back free of charge by any Fiat dealer and expertly recycled.

Chapter 12: Sanitation and Environmental Protection

12.1 The environment and traveling

Environmentally fair use

It is only natural that owners of mobile homes and caravans have a special responsibility for the environment. Always use your vehicle in an environmentally friendly way.



The following applies for environmentally fair use:

- Do not spoil the peace and cleanliness of nature.
- Dispose of sewage, excrements and wast in the proper way.
- Set an example so that mobile home and caravan drivers are not generally held to be pollutionists.



The following applies for sewage:

- Collect sewage on board only in built-in sewage tanks or, if necessary, in suitable containers!
- Never empty sewage in open spaces or down manholes!
 Generally, the public sewage system does not run through clarification plants.
- Empty your sewage tank as often as possible, even if it is not completely full (hygiene). If possible, rinse out the sewage tank with fresh water after emptying.



Only empty your sewage tank in special places for sewage disposal, but never in open spaces! Generally, sewage stations are found in motorway service areas, campsites or petrol stations.





The following applies for excrements:

Only use approved sanitary cleansing products in the excrement tank.



You may be able to avoid the use of sanitary liquids by installing an activated carbon filter system (sold as an accessory)!



Use sanitary liquids very sparingly. An overdose is no guarantee of preventing odours!

Sanitation

- Never allow the excrement tank to become too full. Empty the tank immediately as soon as the level indicator lights up.
- Never empty excrements down manholes! Generally, the public sewage system does not run through clarification plants.



Empty the excrement tank in special places for sanitary disposal, but never in open spaces!





The following applies for waste:

- Separate your waste and put appropriate materials in the recycling bins.
- Empty waste bins as often as possible in the appropriate bins or containers. This avoids unpleasant and problematic waste from building up on board.

The following applies for picnic spots:

 Always leave picnic spots clean and tidy, even if you dispose of someone else's waste.



Careful use of the environment is not only in the interest of nature, but also of mobile home and caravan drivers everywhere!

Hobby

12.2 Returning the vehicle

If you should ever have to give up your mobile home and have it recycled, the manufacturer of the basic vehicle is responsible for taking it back (status at the time of printing).

This means that your HOBBY mobile home will be taken back free of charge by any Fiat dealer and expertly recycled.

Chapter 13: Technical Data

13.1 Weights according to 92/21/EWG, 2007 season

| Model | Series | Weight of basic vehicle | Driver | Diesel (kg) | Basic equipment | Mass when vehicle is ready to start | Techn. perm. ove- rall weight | Over- load weight | No. of seats |
|---------------|-----------------------|-------------------------|--------|----------------|-----------------|-------------------------------------|-------------------------------------|-------------------------|--------------|
| D 600 FL | Toskana (F) | 2770 | 75 | 77 | 121 | 3043 | 3500 | 458 | 4 |
| D 600 GFLC | Toskana (F) | 2795 | 75 | 77 | 121 | 3068 | 3500 | 433 | 4 |
| D 650 ES | Toskana (F) | 2840 | 75 | 77 | 121 | 3113 | 3500 | 388 | 4 |
| D 650 FLC | Toskana (F) | 2870 | 75 | 77 | 121 | 3143 | 3500 | 358 | 4 |
| D 650 FLC | Toskana Exklusive (G) | 2852 | 75 | 77 | 121 | 3125 | 3500 | 376 | 4 |
| D 650 GFLC | Toskana Exklusive (G) | 2888 | 75 | 77 | 121 | 3161 | 3500 | 340 | 4 |
| D 690 GELC | Toskana Exklusive (G) | 2990 | 75 | 77 | 121 | 3263 | 4000 | 738 | 4 |
| D 750 FLC | Toskana Exklusive (G) | 3520 | 75 | 77 | 121 | 3793 | 4500 | 708 | 4 |
| D 750 ELC | Toskana Exklusive (G) | 3530 | 75 | 77 | 121 | 3803 | 4500 | 698 | 4 |
| D 750 GELC | Toskana Exklusive (G) | 3545 | 75 | 77 | 121 | 3818 | 4500 | 683 | 4 |
| D 595 AK LC | Toskana (E) | 2839 | 75 | 77 | 121 | 3112 | 3500 | 389 | 4 |
| D 615 AK GFLC | Toskana (E) | 2875 | 75 | 77 | 121 | 3148 | 3500 | 353 | 4 |
| D 615 AK KLC | Toskana (E) | 2893 | 75 | 77 | 121 | 3166 | 3500 | 335 | 4 |
| D 670 AK KMC | Toskana (E) | 3090 | 75 | 77 | 121 | 3363 | 4000 | 638 | 4 |
| D 670 AK GFM | Toskana (E) | 3110 | 75 | 77 | 121 | 3383 | 4000 | 618 | 4 |
| D 670 AK FLC | Toskana (E) | 3060 | 75 | 77 | 121 | 3333 | 4000 | 668 | 4 |
| D 670 AK GFLC | Toskana (E) | 3055 | 75 | 77 | 121 | 3328 | 4000 | 673 | 4 |
| D 725 AK GFMC | Sphinx (H) | 3680 | 75 | 77 | 211 | 4043 | 4500 | 458 | 4 |
| D 770 AK GEMC | Sphinx (H) | 3735 | 75 | 77 | 211 | 4089 | 4500 | 403 | 4 |

These figures refer to the standard vehicle without extra equipment. Deviations of up to 5 % are possible.



13.2 Inflation pressures

| Model | Conventi- onal loading | Overload weight | Length of vehicle | Personal equipment | Remaining overload weight |
|---------------|------------------------------|-----------------|-------------------------|--------------------|---------------------------------|
| D 600 FL | 225 | 233 | 6,5 | 105 | 128 |
| D 600 GFLC | 225 | 208 | 6,5 | 105 | 103 |
| D 650 ES | 225 | 163 | 7,0 | 110 | 53 |
| D 650 FLC | 225 | 133 | 7,0 | 110 | 23 |
| D 650 FLC | 225 | 151 | 7,0 | 110 | 41 |
| D 650 GFLC | 225 | 115 | 7,0 | 110 | 5 |
| D 690 GELC | 225 | 513 | 7,5 | 115 | 398 |
| D 750 FLC | 225 | 483 | 8,1 | 121 | 362 |
| D 750 ELC | 225 | 473 | 8,1 | 121 | 352 |
| D 750 GELC | 225 | 458 | 8,1 | 121 | 337 |
| D 595 AK LC | 225 | 164 | 6,1 | 101 | 62 |
| D 615 AK GFLC | 225 | 128 | 6,5 | 105 | 23 |
| D 615 AK KLC | 225 | 110 | 6,5 | 105 | 5 |
| D 670 AK KMC | 225 | 413 | 7,0 | 110 | 303 |
| D 670 AK GFM | 225 | 393 | 7,0 | 110 | 283 |
| D 670 AK FLC | 225 | 443 | 7,0 | 110 | 333 |
| D 670 AK GFLC | 225 | 448 | 7,0 | 110 | 338 |
| D 725 AK GFMC | 225 | 233 | 7,6 | 116 | 116 |
| D 770 AK GEMC | 225 | 178 | 8,1 | 121 | 57 |

| Tires | tire pressure (bar) | Basis | | | |
|---------------------------|----------------------|-------|--|--|--|
| Michelin XC Camping | | | | | |
| 215/70 R 15 C | front: 5,0 rear: 5,5 | FIAT | | | |
| 225/75 R 16 C | front: 5,5 rear: 5,5 | FIAT | | | |
| other tire manufacturers* | | | | | |
| 215/70 R 15 C | front: 4,1 rear: 4,5 | FIAT | | | |
| 225/75 R 16 C | front: 4,5 rear: 5,0 | FIAT | | | |



^{*} These inflation pressures are only valid for standard tires by alternative manufacturers. In principle, we try to equip all vehicles with "Michelin Camping" tires. In times of high demand, however, Michelin is unable to fulfil all demands. In this case, alternative brands are mounted, e.g. Pirelli.

Index

Accessories care of 11-4 Airing 11-1

В

Battery charger location 06-15 Beds, rearranging lift-off table construction 07-13 Brakes 02-6/04-8 Breakdown of devices 06-20

C

Caravan battery 06-18 changing the battery 06-19 features 06-18 location 06-18 Care 11-2 of windows and doors 11-3 of furniture surfaces 11-3 of cushions and upholstery, curtains 11-3 of carpeted floor 11-3 of toilet 11-3 of accessories 11-4 Changing a tire 04-7 Charging procedure 06-16 with running motor 06-17 protecting the device 06-17 protection against total

discharge 06-16 Chassis 03-1 Checking the gas supply 9-1 Circuit diagram interior 06-21 Compulsory ventilation 05-6 Condensation 11-1 Cupboard doors with push-button knob 07-2

D

Day and night position overview 07-21 Dimming system 07-11 Doors and flaps interior 07-1 Doors opening and closing 05-8 Driving 02-7 curves 02-7 protecting your tires 04-1 in reverse 02-7 Driving in reverse 02-7 Driving through curves 02-7

Е

Economic driving 02-7 Electric power supply 06-14 Electric power supply unit 06-15 Electric system fuses 06-19 Electrical installations safety instructions 06-1

Emergency equipment 02-9 fire extinguisher 02-10 first-aid kit 02-9 warning triangle 02-10 Entrance door 05-8/07-1 Entrance step 03-10 Environment 12-1 waste 12-3 sewage 12-1 sanitation 12-2 excrements 12-2 picnic spots 12-3 Environmental protection 12-1 Exterior gas supply 05-11 Exterior mirror 05-13 Exterior shower water supply 05-12 Cleaning the exterior 11-2 polishing 11-2 waxing 11-2 Exterior socket 05-12 Externally mounted constructions 03-11

Fire extinguisher 02-10 First-aid kit 02-9 Flaps opening and closing 05-8 Flushing toilet 08-4 Fresh water filler neck 05-11 Fresh water tank 08-1 to empty 08-2

to get water 08-1 to fill with water 08-1 Furniture surfaces care of 11-3 Fuse protection of elec. system 12 V circuits 06-20 information on fuses 06-20 starter battery 06-19

G

Gas 09-1 Gas bottle container 09-3 Gas cooker 09-7 to operate 09-8 putting into operation 09-7 Gas supply 09-3 General inspection 02-2

н

Headrests adjusting the height 07-31 Heating to turn off 09-6 to operate 09-5 location of operating device 09-5 malfunction 09-6 Hot water supply function 08-9

Inflation pressure 04-2 Inflation pressure values 13-2



Κ Oven 09-9 Selecting a parking space 02-14 V Keys to the vehicle 05-8 Service flaps 05-1 Valves 09-2 Knockout windows 07-3 Sewage tank 08-3 Petrol 02-7 to empty 08-3 Preparing the vehicle 02-2 Shunting 02-6 Warning triangle 02-10 Levelling supports 03-9 Protection against total Skylights 07-5 Waste gas 09-2 Loading 02-5/03-1 discharge 06-16 in washroom 07-11 Water boiler 08-9 LPG fittings Spare tire 04-3 to empty 08-12 waste gas 09-2 R Sunroof to fill 08-9 Repair kit 04-3 operating in summer 08-10 quick-action stop valves with combined blind 07-6 and valves 09-4 Refrigerator 09-7 Sunshade 07-4 malfunction 08-12 location 09-4 230 V operation 09-7 combined with blinds 07-4 Water supply for exterior shower to adjust 07-4 05 - 12built-in objects to operate 09-7 modes of operation 09-7 Switching electric consumption Water system 02-14 and changes 09-1 checking 09-1 gas operation 09-7 02-14 Weight of accessories 03-10 regulators and valves 09-2 ventilation 05-6 Wheel rims 04-3 locking the door 09-7 т Luggage trunk flap 05-9 Winterizing your vehicle 11-5 operating in winter 05-6 Tank flaps 05-1 exterior of caravan and basic М Registration 02-2 Tar stains 11-2 vehicle 11-6 Mains supply 06-14 Regulator 09-2 Technical data sheet 13-1 containers 11-6 Maintenance intervals 11-1 Resin stains 11-3 Toilet flap 05-10 interior fittings 11-5 Returning the vehicle 12-3 Toilet Maintenance Roof load 02-6 care of 11-3 brake system 04-5 Maximum speeds 02-11 Toilet use of 08-5 0 Saving energy 02-8 C 200 S cassette 08-6 On-board control panel 06-1 Seatbelts C 200 F 08-6 Operating in winter in caravan 07-31 emptying cassette 08-7 Seating arrangements Towbar coupling 10-1 sewage tank 11-5 ventilation 11-5 overview 07-16 Tread depth 04-2 Seats Tires 04-1 frost protection 11-5

preparations 11-4

Operating the cooker 09-2

in caravan 07-21

Securing the vehicle 02-14



A-1 | Appendix

Calculating masses for HOBBY mobile homes

The following table enables you to calculate the mass of your own mobile home on the basis of the mass data given in this manual. This calculation must always result in a positive remaining load in order to fulfil current legal requirements.

To determine your remaining load, simply subtract the "mass when the vehicle is ready to start", the "conventional load", all "additional equipment" as well as your "personal luggage" from the "technically permissible overall mass". Simply enter the date for your personal mobile home in the table on the next page. If you have any questions or if anything is unclear, your HOBBY dealer will be pleased to assist you.

Your
HOBBY Motor Home Plant
Ing. Harald Striewski GmbH



Model:

| Technically permissible overall mass: | | |
|---|-----|--|
| Mass when the vehicle is ready to start (incl. gas, water, electricity, driver and fuel): | - | |
| Conventional load (no. of seats [excl. driver] x 75 kg: | - | |
| Additional equipment: | | |
| 1.) | - | |
| 2.) | - | |
| 3.) | - | |
| 4.) | - | |
| 5.) | - | |
| 6.) | - | |
| 7.) | - | |
| 8.) | - | |
| 9.) | - | |
| 10.) | - | |
| 11.) | - | |
| 12.) | - | |
| 13.) | - | |
| 14.) | - | |
| 15.) | - | |
| Personal luggage = (10 x N) + (10 x L): | - | |
| N - Total number of seats (incl. driver) | | |
| L - Length of vehicle in meters | | |
| Remaining loa | id: | |



Under no circumstances may the technically permissible overall mass of the mobile home be exceeded!

